SCIENCE

Index to Volume 167

January–March 1970

Editorial Board

GUSTAF O. ARRHENIUS
FRED R. EGGAN
THOMAS EISNER
AMITAI ETZIONI
HARRY F. HARLOW
MILTON HARRIS
EMIL HAURY
DANIEL KOSHLAND, JR.
RICHARD C. LEWONTIN
NEAL MILLER
BRUCE MURRAY
ALFRED O. C. NIER
JOHN R. PIERCE
FRANK W. PUTNAM

Editorial Staff

DAEL WOLFLE
Publisher

HANS NUSSBAUM
Business Manager

PHILIP H. ABELSON
Editor

EARL J. SCHERAGO, *Advertising Director*

Published by the

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW, Washington, D.C. 20005

Printed in Washington, D.C., by McCall Printing Company, Mid-Atlantic Division

Copyright 1970 by the American Association for the Advancement of Science

No.	*Date of Issue*	*Pages*	*No.*	*Date of Issue*	*Pages*
3914	2 January	1–92	3921	20 February	1027–1190
3915	9 January	93–230	3922	27 February	1191–1282
3916	16 January	231–314	3923	6 March	1283–1430
3917	23 January	315–414	3924	13 March	1431–1530
3918	30 January	415–794	3925	20 March	1531–1662
3919	6 February	795–926	3926	27 March	1663–1766
3920	13 February	927–1026			

The names of authors of books reviewed are printed in SMALL CAPITALS.

A

Abbey, S. *See* Maxwell, J. A., *et al.*
Abdel-Gawad, M. *See* Muir, A. H., Jr., *et al.*
Abell, P. I., *et al.*: Organic analysis of the returned lunar sample, 757; *erratum*, 1759
Abelson, P. H. (*editorials*): Long-term efforts to clean the environment, 1081; The moon issue, 447; Progress in abating air pollution, 1567; Social responsibilities of scientists, 241
Absorption of proteins and peptides in the far ultraviolet, A. H. Woods and P. R. O'Bar, 179
Abundance of alkali metals, alkaline and rare earths, and strontium-87/strontium-86 ratios in lunar samples, P. W. Gast and N. J. Hubbard, 485
Abundances of 30 elements in lunar rocks, soil, and core samples, R. A. Schmitt *et al.*, 512
Acanthaster: a disaster?, W. A. Newman and R. H. Chesher, 1274
Acetylcholine sensitivity and distribution on mouse neuroblastoma cells, A. J. Harris and M. J. Dennis, 1253
Acidic mine drainage: the rate-determining step, P. C. Singer and W. Stumm, 1121
Active submarine volcanism in the Austral Islands, R. H. Johnson, 977
Adami, L. H. *See* Friedman, I., *et al.*
Adams, J. A. S. *See* Heymann, D., *et al.*
Adams, J. B., and R. L. Jones: Spectral reflectivity of lunar samples, 737
Adaptive aspects of insular evolution *(meeting report)*, R. W. Matthews and J. R. Matthews, 909
Adenohypophysial transmembrane potentials: polarity reversal by elevated external potassium ion concentration, J. V. Milligan and J. Kraicer, 182
Ader, R.: *book review* of Prenatal determinants of behaviour, 857
Adler, I., *et al.*: Electron microprobe analysis of lunar samples, 590
Adler, W. F. *See* Kanninen, M. F., *et al.*
Advances in computer-based education, D. Alpert and D. L. Bitzer, 1582
After the moon, the earth!, W. O. Roberts, 11
Age determinations and isotopic abundance measurements of lunar samples, R. K. Wanless *et al.*, 479
Age of the moon: an isotopic study of uranium-thorium-lead systematics of lunar samples, M. Tatsumoto and J. N. Rosholt, 461
Ages, irradiation history, and chemical composition of lunar rocks from the Sea of Tranquillity, A. L. Albee *et al.*, 463
Aging life processes, S. BAKERMAN (Ed.), *book review* by W. Bondareff, 1243
Agrell, S. O., *et al.*: Mineralogy and petrology of some lunar samples, 583
Ahrens, L. H., and R. V. Danchin: Lunar surface rocks and fines: chemical composition, 87
Airborne lead and carbon monoxide at 45th Street, New York City, J. L. Bové and S. Siebenberg, 986
Akimoto, S. *See* Kushiro, I., *et al.*
Alanine: key role in gluconeogenesis, P. Felig *et al.*, 1003
Alaska: a climate for cabbages (*letter*), C. E. Logsdon, 1316
Albee, A. L., *et al.*: Ages, irradiation history, and chemical composition of lunar rocks from the Sea of Tranquillity, 463
Albright, J. F., *et al.*: Antigen competition: antigens compete for a cell occurring with limited frequency, 196
Alcohol, amines, and alkaloids: a possible biochemical basis for alcohol addiction, V. E. Davis and M. J. Walsh, 1005
Alexeenko, N. Y.: Directional hearing: effect of unilateral change of the sound duration, 1009
Alfvén, H., and G. Arrhenius: Mission to an asteroid, 139
Alkaloids from catecholamines in adrenal tissue: possible role in alcoholism, G. Cohen and M. Collins, 1749
Alker, H. R., Jr., *et al.*: Social science research (*letters*), 819
Allelic form of enzymes, R. C. Lewontin and J. G. Scandalios, 1519
Allen, E. R. *See* Cadle, R. D.
Allen, L. C., and P. A. Kollman: A theory of anomalous water, 1443
Allen, J. H. *See* Anderson, D. L., *et al.*
Allen, R. O. *See* Haskin, L. A., *et al.*
Alley, C. O., *et al.* (23 Jan.): Apollo 11 laser ranging retro-reflector: initial measurements from the McDonald Observatory, 368
Alley, C. O., *et al.* (30 Jan.): Laser ranging retro-reflector: continuing measurements and expected results, 458
Allison, J. E. *See* Bardin, C. W., *et al.*
Alpert, D., and D. L. Bitzer: Advances in computer-based education, 1582
Alpha-particle activity of Apollo 11 samples, K. A. Richardson *et al.*, 516
Alpha radioactivity of the lunar surface at the landing sites of Surveyors 5, 6, and 7, A. L. Turkevich *et al.*, 1722
Altered dihydrofolate reductase associated with drug-resistance transfer between rodent plasmodia, R. Ferone *et al.*, 1263
Alvarez, L. W., *et al.* (30 Jan.): Search for magnetic monopoles in the lunar sample, 701
Alvarez, L. W., *et al.* (6 Feb.): Search for hidden chambers in the pyramids, 832
Alvarez, T. R. *See* Boucek, R. J.
δ-Aminolevulinic acid synthetase: induction in embryonic chick liver by glucagon, J. A. Simons, 1378
Analysis of lunar material for organic compounds, S. R. Lipsky *et al.*, 778
Anders, E. *See* Keays, R. R., *et al.*
Andersen, C. A. *See* Fredriksson, K., *et al.*
Anderson, A. T., Jr., *et al.*: Petrologic history of moon suggested by petrography, mineralogy, and crystallography, 587
Anderson, D. *See* Fryxell, R., *et al.*
Anderson, D. L., *et al.*: Earthquakes and nuclear detonations, 1011
Anderson, D. M. *See* Prior, D. B., *et al.*
Anderson, J. *See* Menzel, D. W., *et al.*
Anderson, J. A. *See* Alvarez, L. W., *et al.* (6 Feb.)
Anderson, J. D., *et al.*: Martian mass and earth-moon mass ratio from coherent S-band tracking of Mariners 6 and 7, 277
Anderson, O. L. *See* Schreiber, E., *et al.*
Andrews, J. D. *See* Hopkins, S. H.
Anfinsen, C. B. *See* Schechter, A. N., *et al.*
Animal cells: noncorrelation of length of G_1 phase with size after mitosis, T. O. Fox and A. B. Pardee, 80
Animal remains from Lepenski vir, S. Bökönyi, 1702
Annell, C., and A. Helz: Emission spectrographic determination of trace elements in lunar samples, 521
Antagonists and nucleic acids, M. E. BALIS, *book review* by H. Busch, 1243
"Antidotal thirst": a response to intoxication, D. F. Smith *et al.*, 297
Antigen competition: antigens compete for a cell occurring with limited frequency, J. F. Albright *et al.*, 196
α_1-Antitrypsin deficiency, J. Lieberman and F. Kueppers, 1015
Apollo 11 laser ranging retro-reflector: initial measurements from the McDonald Observatory, C. O. Alley *et al.*, 368
Appelman, D. E. *See* Stewart, D. B., *et al.*
Application of modern physics to the earth and planetary interiors, The, S. K. RUNCORN (Ed.), *book review* by F. Press, 1482
Apollo 11 drive-tube core samples: an initial physical analysis of lunar surface sediment, R. Fryxell *et al.*, 734
Apollo 11 soil mechanics investigation, N. C. Costes *et al.*, 739
Archaeology of Martha's Vineyard, The, W. A. RITCHIE, *book review* by J. G. Ogden, III, 168

Archambeau, C. B. *See* Anderson, D. L., *et al.*
[8-Arginine]-vasopressinoic acid: an inhibitor of rabbit kidney adenyl cyclase, T. Douša *et al.*, 1134
Argon-40/argon-39 dating of lunar rock samples, G. Turner, 466; *erratum*, 1759
Arid lands in perspective, W. G. MC GINNIES and B. J. GOLDMAN (Eds.), *book review* by M. Evenari, 968
Armer, P., *et al.*: Campus computer costs (*letter*), 1198
Arnott, S. *See* Wilkins, M. H. F., *et al.*
Appelbaum, J. A.: *book review* of Tunneling in solids, 1244
Arndt, J. *See* von Engelhardt, W., *et al.*
Arnold, J. R. *See* Shedlovsky, J. P., *et al.*
Arrhenius, G. *See* Alfvén, H.
Arrhenius, G., *et al.*: Phase chemistry, structure, and radiation effects in lunar samples, 659
Arriens, P. A. *See* Compston, W., *et al.*
Asexual reproduction in a sipunculan worm, M. E. Rice, 1618
L-Asparaginase-deficient mutants of yeast, G. E. Jones and R. K. Mortimer, 181
L-Asparaginase-induced immunosuppression: effects on antibody-forming cells and serum titers, A. K. Chakrabarty and H. Friedman, 869
Aspen conference on quantum crystals (*meeting report*), N. R. Werthamer, 912
Association Affairs: appraisal of 1969 meeting, 1157; Council meeting, 1151; Mina Rees, president-elect, 1149; officers, committees, and representatives, 1154
Astin, A. W. *See* Gray, A. P.
Astronomical theory of climatic change: support from New Guinea, H. H. Veeh and J. Chappell, 862
Asunmaa, S. *See* Arrhenius, G., *et al.*
Atmosphere of Jupiter, The, T. Owen, 1675
Atmospheric circulation systems, E. PALMÉN and C. W. NEWTON, *book review* by E. N. Lorenz, 972
Atmospheric photochemistry, R. D. Cadle and E. R. Allen, 243
Atropinesterase and cocainesterase of rabbit serum: localization of the enzyme activity in isozymes, C. Stormont and Y. Suzuki, 200
Aurintricarboxylic acid and initiation factors of wheat embryo, A. Marcus *et al.*, 1735
Ave'Lallemant, H. G. *See* Carter, N. L., *et al.*
Ayala, G. F., *et al.*: Penicillin as epileptogenic agent: its effect on an isolated neuron, 1257
Ayala, S. C., and D. Lee: Saurian malaria: development of sporozoites in two species of phlebotomine sandflies, 891
Azumaya, G., *et al.*: Shift of NSF funds (*letter*), 1671

B

BACHARACH, A. L. *See* GRAY, C. H.
Bacteriophage induced transfer RNA in *Escherichia coli*, V. Daniel *et al.*, 1682
Baedecker, P. A., and J. T. Wasson: Gallium, germanium, indium, and iridium in lunar samples, 503
Baerreis, D. A. *See* Potter, V. R., *et al.*
Bailey, J. C., *et al.*: Mineralogical and petrological investigations of lunar samples, 592
Bailey, L. F. *See* Anderson, D. L., *et al.*
BAJUSZ, E., *et al.*, Physiology and pathology of adaptation mechanisms, *book review* of, 1243
Baker, H. G. *See* Shapiro, A. M., *et al.*
Baker, P. T.: *book review* of Human biology, 43
BAKERMAN, S. (Ed.), Aging life processes, *book review* of, 1243
Balagura, S. *See* Smith, D. F., *et al.*
Baldwin, A. L. *See* Stanley, J. C., *et al.*
BALIS, M. E., Antagonists and nucleic acids, *book review* of, 1243
Ball, J. A., *et al.*: Search for an effect of the sun on the frequency of 18-centimeter radiation, 1755
Ball, M. M., and C. G. A. Harrison: Crustal plates in the central Atlantic, 1128
Ballou, C. E.: *book review* of Cyclitols and phosphoinositides, 1481
Bancroft, G. M. *See* Gay, P., *et al.*
Bardin, C. W., *et al.*: Pseudohermaphrodite rat: end organ insensitivity to testosterone, 1136
Barghoorn, E. *See* Ponnamperuma, C., *et al.*
Barghoorn, E. S., *et al.*: Micropaleontological study of lunar material, 775
Bark bettle pheromones, W. D. Bedard *et al.*, 1638
Barker, J. M. *See* Cloud, P., *et al.*
Barley yellow dwarf virus: phenotypic mixing and vector specificity, W. F. Rochow, 875
BARMAN, T. E., Enzyme handbook, *book review* of, 860
Barnes, V. E. *See* Cloud, P., *et al.*
Barone, A. *See* Malins, D. C.
Barrett, G. V., and R. H. Franke: "Psychogenic" death: a reappraisal, 304
Baserga, R. *See* Serota, F. T.
Bassingthwaighte, J. B.: Blood flow and diffusion through mammalian organs, 1347
Bastin, J. A., *et al.*: Infrared and thermal properties of lunar rock, 728
Battey, M. H. *See* Runcorn, S. K., *et al.*
Bauman, A. J.: Drug detection (*letter*), 6. *See also* Rho, J. H., *et al.*
Becker, K., and D. R. Johnson: Nonphotographic alpha autoradiography and neutron-induced autoradiography, 1370
Bed forms in base-surge deposits: lunar implications, D. R. Grine *et al.*, 1637
Bedard, W. D., *et al.*: Bark beetle pheromones, 1638
Begemann, F. *See* Hintenberger, H., *et al. See also* Wänke, H., *et al.*
Behavioral measurement of neural poststimulation excitability cycle: pain cells in the brain of the rat, R. S. Kestenbaum *et al.*, 393
Behrend, E. R., *et al.*: Interference and forgetting in bird and fish, 389
BEHRMAN, S. J., *et al.* (Eds.), Fertility and family planning, *book review* of, 1606
Belding, M. E., *et al.*: Peroxidase-mediated virucidal systems, 195
Bell, P. M. *See* Haggerty, S. E., *et al.*
Bell, P. R. *See* O'Kelley, G. D., *et al.*
Benavente, J. *See* Morrison, F., *et al.*
Bence, A. E. *See* Ross, M., *et al.*
Bendall, R. *See* Stoltz, D. R., *et al.*
Bender, P. L. *See* Alley, C. O., *et al.* (30 Jan.)
Bennett, L.: Insect flight: lift and rate of change of incidence, 177
BENNETT, P. B., and D. H. ELLIOTT (Eds.), The physiology and medicine of diving and compressed air work, *book review* of, 363
Bentonite landslides, D. B. Prior *et al.*, 1014
BERELSON, B. (Ed.), Family-planning programs, *book review* of, 1606
BERG, G. G. *See* MILLER, M. W.
Berg, G. R. *See* Klein, D. C., *et al.*
Berkowitz, K. *See* Carder, B.
Berl, W. G.: The 1969 Meeting of the AAAS: a brief appraisal (*AAAS*), 1157
Berliner, M. D., and M. E. Reca: Release of protoplasts in the yeast phase of *Histoplasma capsulatum* without added enzyme, 1255
Bernstein, L., *et al.*: Calcium and salt tolerance of plants, 1387
Bestel, J. L. *See* Fesolowich, A., *et al.*
Beta glucuronidase activity in skin components of children with cystic fibrosis, G. E. Gibbs and G. D. Griffin, 993
Bewley, J. D. *See* Marcus, A., *et al.*
Beyer, R. E.: *Bioenergetics Bulletin* prospers (*letter*), 126
Beyer, R. L. *See* Goleš, G. G., *et al.*
Biava, C. G. *See* Price, J. M., *et al.*
Biemann, K. *See* Murphy, R. C., *et al.*
Biggar, G. M. *See* O'Hara, M. J., *et al.*
Biggers, J. D. *See* Graves, C. N.
Bile pigment formation in plants, R. F. Troxler *et al.*, 192
Bioelectrical impedance (*meeting report*), L. A. Geddes, 1761
Bioenergetics Bulletin prospers (*letter*), R. E. Beyer, 126
Biogeography and ecology in South America, E. J. FITTKAU *et al.* (Eds.), *book review* by E. Williams, 275
Biographical dictionary of scientists, A. T. I. WILLIAMS and S. WITHERS (Eds.), *book review* by A. Thackray, 363
Biological effects of pesticides in mammalian systems, H. E. KRAYBILL (Ed.), *book review* by J. J. Hickey and S. Hickey, 1480
Biology and the physical sciences, S. DEVONS (Ed.), *book review* by E. C. Pollard, 272
Biomedical engineering, R. F. Rushmer and L. L. Huntsman, 840
Biometry, R. R. SOKAL and F. J. ROHLF, *book review* by L. Van Valen, 165
Bio-organic compounds and glassy microparticles in lunar fines and other materials, S. W. Fox, *et al.*, 767
Bird, M. L. *See* Duke, M. B., *et al.*
Bird vocalizations, R. A. HINDE (Ed.), *book review* by W. J. Smith, 39
Birkebak, R. C., *et al.*: Thermal radiation properties and thermal conductivity of lunar material, 724
Bischoff, J. L., *et al.*: Composition of interstitial waters of marine sediments: temperature of squeezing effect, 1245
Bitterman, M. E. *See* Behrend, E. R., *et al.*
Bitzer, D. L. *See* Alpert, D.
Black, D. C. *See* Pepin, R. O., *et al.*
Black, L. P. *See* Kohman, T. P., *et al.*
Bladder cancer induction by aromatic amines: role of *N*-hydroxy metabolites, J. L. Radomski and E. Brill, 992
Bladder tumors in rats fed cyclohexylamine or high doses of a mixture of cyclamate and saccharin, J. M. Price *et al.*, 1131
Blair, I. M. *See* Edgington, J. A.
Blander, M. *See* Muir, A. H., Jr., *et al.*
Blood flow and diffusion through mammalian organs, J. B. Bassingthwaighte, 1347
Bloom, S.: Spontaneous rhythmic contraction of separated heart muscle cells, 1727
Blue haze and Mariner 6 pictures of Mars, S. L. Hess *et al.*, 906
BOCK, P. K. (Ed.), Peasants in the modern world, *book review* of, 1604
Boettcher, A. L. *See* Hill, R. E. T.
Boffey, P. M. (*News and Comment*): helium stockpiling, 1593; Japan, 31, 147, 264; 960; Korean science institute, 1354; Mansfield amendment curb on basic research may spread, 1473; Psychological Association apprehensive over a new communications system, 1228
Boffey, P. M., *et al.* (*News and Comment*): science funding remains tight in Nixon budget, 845
Bogard, D. D. *See* Funkhouser, J. G., *et al.*
Bökönyi, S.: Animals remains from Lepenski vir, 1702
Bond, G. C. *See* Manheim, F. T., *et al.*
Bondareff, W.: *book review* of Aging life processes, 1243
Bone marrow and spleen: dissociation of immunologic properties by cortisone, M. A. Levine and H. N. Claman, 1515
Bonner, J. *See* Rho, J. H., *et al.*
Bopp, B. *See* Alley, C. O., *et al.* (23 Jan.)
Borax Lake site revisited, The, C. W. Meighan and C. V. Haynes, 1213
Boreman, J. A. *See* Chao, E. C. T., *et al.*
Born, W. *See* Wänke, H., *et al.*
Borst, L. B. *See* Jacobson, J. J.
Bottinga, Y. *See* Weill, D. F., *et al.*
Boucek, R. J., and T. R. Alvarez: 5-Hydroxytryptamine: a cytospecific growth stimulator of cultured fibroblasts, 898
Boucher, G. *See* Anderson, D. L., *et al.*
BOURNE, G. H. (Ed.), The chimpanzee, *book review* of, 1714
Bové, J. L., and S. Siebenberg: Airborne lead and carbon monoxide at 45th street, New York City, 986
Bowie, S. H. U. *See* Simpson, P. R.
Bowley, C. J. *See* McClain, E. P., *et al.*
Bowman, B. H., *et al.*: Cystic fibrosis: characterization of the inhibitor to ciliary action in oyster gills, 871
Bowman, R. L. *See* Ito, Y.
Bown, M. G. *See* Gay, P., *et al.*
Boyce, P. B. *See* Hess, S. L., *et al.*
Boyd, F. R. *See* Haggerty, S. E., *et al.*
Boyer, C. B.: *book review* of Number words and number symbols, 366
Boyle, J. A. *See* Greene, M. L., *et al.*
Brahmi, Z. *See* Merchant, B.
Breger, I. A. *See* Ponnamperuma, C., *et al.*
Brewer, E. N.: Ethical standards: in search of a protector (*letter*), 1320
Brieger, G., and F. M. Butterworth: *Drosophila melanogaster:* identity of male lipid in reproductive system, 1262
Brighter future for Latin American science education (*letter*), J. D. Perkinson, 335
Brill, E. *See* Radomski, J. L.
BRØNDSTED, H. V., Planarian regeneration, *book review* of, 1117
Brooks, D. B.: Economics of sea-level canal (*letter*), 124
Brooks, H.: NAS collaboration with SSRC (*letter*), 6
Broverman, D. M. *See* Clarkson, F. E., *et al.*
Broverman, I. K. *See* Clarkson, F. E., *et al.*
Brown, Anne. *See* Troxler, R. F., *et al.*
Brown, Arlen. *See* Azumaya, G., *et al.*
Brown, A. M. *See* Walker, J. L., Jr.
Brown, G. B. *See* Stöhrer, G.
Brown, G. M., *et al.*: Petrographic, mineralogic, and x-ray fluorescence analysis of lunar igneous-type rocks and spherules, 599
Brown, J.: Tundra biome program (*meeting report*), 1278. *See also* Prior, D. B., *et al.*
Brown, J. C. *See* Fresco, J. R., *et al.*
Brue, F. *See* Joanny, P., *et al.*
Bruell, J. H., *et al.*: Inheritance of a cardiac arterial symmetry in mice, 199
Brune, J. N. *See* Anderson, D. L., *et al.*

Bryan, G. T., and E. Ertürk: Production of mouse urinary bladder carcinomas by sodium cyclamate, 996
Bryan, W. B. *See* Haggerty, S. E., *et al.*
Bryson, R. A. *See* Potter, V. R., *et al.*
Bullock, L. *See* Bardin, C. W., *et al.*
Bunch, T. E. *See* Keil, K., *et al. See also* Quaide, W., *et al.*
Bunnenberg, E. *See* Hodgson, G. W., *et al.*
Burkhard, H. *See* Castellion, G. A., *et al.*
Burkhard, J. *See* Alvarez, L. W., *et al.* (6 Feb.)
Burlingame, A. L., *et al.*: Lunar organic compounds: search and characterization, 751
BURNET, M., Cellular immunology, *book review* of, 1608; Self and not-self, *book review* of, 1608
Burnett, D. S. *See* Albee, A. L., *et al.*
Burns, R. O. *See* Hatfield, G. W.
BURNSTEIN, E., and S. LUNDQVIST (Eds.), Tunneling phenomena in solids, *book review* of, 1116
Busch, H.: *book review* of Antagonists and nucleic acids, 1243
Butler, J. C. *See* King, E. A., Jr., *et al.*
Butterworth, F. M. *See* Brieger, G.
Byrd, B. L. *See* Hayes, R. L., *et al.*

C

Cadle, R. D., and E. R. Allen: Atmospheric photochemistry, 243
Caffrey, J.: Our fragile environment (*letter*), 1561
Cahill, G. F., Jr. *See* Felig, P., *et al.*
Calcium and salt tolerance of plants, L. Bernstein *et al.*, 1387
Calinger, R. S. *See* Debus, A. G., *et al.*
Calorimetry (*meeting report*), G. C. Sinke, 1526
Calvin, M. *See* Burlingame, A. L., *et al.*
Cameron, E. N.: Opaque minerals in lunar samples, 623
Campbell, F. W. *See* Maffei, L.
Campbell, M. J. *See* Gold, T., *et al.*
Campus computer costs (*letter*), P. Armer *et al.*, 1198
Carbon dioxide fixation by mouse embryos prior to implantation, C. N. Graves and J. D. Biggers, 1506
Carder, B., and K. Berkowitz: Rat's preference for earned in comparison with free food, 1273
Carlisle, E. M.: Silicon: a possible factor in bone calcification, 279
Carlson, T. N. *See* Prospero, J. M.
Carlton, J. E. *See* Hayes, R. L., *et al.*
Carman, M. F. *See* King, E. A., Jr., *et al.*
Carrier, D. *See* Fryxell, R., *et al.*
Carrier, W. D. *See* Costes, N. C., *et al.*
Carrion, W. *See* Alley, C. O., *et al.* (30 Jan.)
Carron, M. K. *See* Rose, H. J., Jr., *et al.*
CARSON, R. C., Interaction concepts of personality, *book review* of, 858
Carter, J. L., and I. D. MacGregor: Mineralogy, petrology, and surface features of lunar samples, 10062,35, 10067,9, 10069,30, and 10085,16, 661
Carter, J. R., Jr. *See* Martin, D. B.
Carter, L. J. (*News and Comment*): environmental policy act, 35; environmental teach-in, 269, 1594; fisheries research, 1471; Galveston Bay, 1102; Hanford switches to ploughshares, 1357; new feminism is potent force in birth-control policy, 1234; Nixon offers environmental program, 1105; water pollution, 360. *See also* Boffey, P. M., *et al.*
Carter, N. L., *et al.*: Deformation of silicates from the Sea of Tranquillity, 666
Case for a hierarchical cosmology, The, G. de Vaucouleurs, 1203
Casida, J. E. *See* Ivie, G. W.
Cassidy, W. A. *See* Hapke, B. W., *et al.*
Castellion, G. A., *et al.*: Polywater: methods for identifying polywater columns and evidence for ordered growth, 865
Castellucci, V. *See* Kupfermann, I., *et al. See also* Pinsker, H., *et al.*
Castellucci, V., *et al.*: Neuronal mechanism of habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, 1745
Castle, J. G. *See* Weeks, R. A., *et al.*
Casualties of our time, A. B. Ford, 256
Cathodoluminescence properties of lunar rocks, R. F. Sippel and A. B. Spencer, 677
Caulfield, H. P., Jr.: *book review* of Strategies of American water management, 970
Cellular immunology, M. BURNET, *book review* by J. D. Ebert, 1608
Cerebral hemorrhage in relation to birth asphyxia, W. F. Windle, 1000
Chakbarty, A. K., and H. Friedman: L-Asparaginase-induced immunosuppression: effects on antibody-forming cells and serum titers, 869
Champ, W. H. *See* Maxwell, J. A., *et al.*
Champness, P. E. *See* Bailey, J. C., *et al.*
Chan, S. I. *See* Manatt, S. L., *et al.*
Chance, or human judgment? (*editorial*), D. Wolfle, 1201
Chang, R. F. *See* Alley, C. O., *et al.* (23 Jan.). *See also* Alley, C. O., *et al.* (30 Jan.)
Chang, S. *See* Ponnamperuma, C., *et al.*
Chao, E. C. T., *et al.*: Petrology of unshocked crystalline rocks and shock effects in lunar rocks and minerals, 644
Chapman, A. T. *See* Gerdes, R. J., *et al.*
Chapman, C. R. *See* Pilcher, C. B., *et al.*
Chappell, B. W. *See* Compston, W., *et al.*
Chappell, J. *See* Veeh, H. H.
Chatelain, A. *See* Weeks, R. A., *et al.*
Chatterji, S. K. *See* Doskotch, R. W., *et al.*
Cheek, F. E., *et al.*: Deceptions in the illicit drug market, 1276
Chemical analyses of lunar samples 10017, 10072, and 10084, H. B. Wiik and P. Ojanpera, 531
Chemical composition of lunar material, J. A. Maxwell *et al.*, 530
Chemical composition of the lunar surface in Sinus Medii, E. J. Franzgrote *et al.*, 376
Chemical fallout, M. W. MILLER and G. G. BERG (Eds.), *book review* by J. J. Hickey and S. Hickey, 1480
Chen, R. F. *See* Schechter, A. N., *et al. See also* Wuntch, T., *et al.*
Chen, T., and R. R. Granados: Plant-pathogenic mycoplasma-like organism: maintenance in vitro and transmission to *Zea mays* L., 1633
Chesher, R. H. *See* Newman, W. A.
Chimpanzee, The, G. H. BOURNE (Ed.), *book review* by J. Napier, 1714
Chimpanzees: self-recognition, G. G. Gallup, Jr., 86
CHIZHEVSKAYA, S. N. *See* GLAZOV, V. M., *et al.*
Chodos, A. A. *See* Albee, A. L., *et al.*
Christian, R. P. *See* Rose, H. J., Jr., *et al.*
Christie, J. M. *See* Radcliffe, S. V., *et al.*
Chromosome number variation in a stick insect *Didymuria violescens* (Leach), E. Craddock, 1380
Chromosome pairing within genomes in maize-*Tripsacum* hybrids, J. R. Harlan *et al.*, 1247
Chung, D. *See* Kanamori, H., *et al.*
Civil defense (*letter*), E. P. Wigner, 1076
CLAGETT, M. (Ed.), Nicole Oresme and the medieval geometry of qualities and motions, *book review* of, 973
Claman, H. N. *See* Levine, M. A.
Clark, G. W. *See* Gerdes, R. J., *et al.*
Clark, J. R. *See* Ross, M., *et al. See also* Stewart, D. B., *et al.*
Clarke, G. L., *et al.*: Spectra of backscattered light from the sea obtained from aircraft as a measure of chlorophyll concentration, 1119
Clarkson, F. E., *et al.*: Family size and sex-role stereotypes, 390
Clayton, R. N. *See* Onuma, N., *et al.*
Clear air turbulence: a mystery may be unfolding, J. A. Dutton and H. A. Panofsky, 937
Clegg, P. E. *See* Bastin, J. A., *et al.*
Clewlow, C. W., Jr. *See* Morrison, F., *et al.*
Cline, T. L.: *book review* of Solar-terrestrial physics: solar aspects, 1115
Clinical psychology as science and profession, D. SHAKOW, *book review* by V. Raimy, 366
Cloud, P. (*editorial*): Russian roulette?, 1321
Cloud, P., *et al.*: Micromorphology and surface characteristics of lunar dust and breccia, 776
Cochlear nerve fiber discharge patterns: relationship to the cochlear microphonic, R. S. Pfeiffer and C. E. Molnar, 1614
Cockroach leg regeneration: effects of ecdysterone in vitro, E. P. Marks and R. A. Leopold, 61
Coffino, P., *et al.*: Immunoglobulin production: method for quantitatively detecting variant myeloma cells, 186
Cohen, A. J. *See* Hapke, B. W., *et al.*
Cohen, A. J., and F. Hassan: Iron in synthetic quartz: heat and radiation induced changes, 176
Cohen, G., and M. Collins: Alkaloids from catecholamines in adrenal tissue: possible role in alcoholism, 1749
Cohen, R. L.: Latin America: bedeviled science (*letter*), 1669
Collins, E. J. *See* Debus, A. G., *et al.*
Collins, M. *See* Cohen, G.
Collins, R. L.: Unilateral inhibition of sound-induced convulsions in mice, 1010
Collinson, D. W. *See* Runcorn, S. K., *et al.*
Composition of interstitial waters of marine sediments: temperature of squeezing effect, J. L. Bischoff *et al.*, 1245
Compositional zoning and its significance in pyroxenes from three coarse-grained lunar samples, R. B. Hargraves *et al.*, 631
Compressibilities of lunar crystalline rock, microbreccia, and fines to 40 kilobars, D. R. Stephens and E. M. Lilley, 731
Compston, W., *et al.*: Rubidium-strontium chronology and chemistry of lunar material, 474
Concentration and isotopic composition of carbon and sulfur in Apollo 11 lunar samples, I. R. Kaplan and J. W. Smith, 541
Concern for the next generation (*editorial*), D. Wolfle, 1441
Conel, J. E. *See* Nash, D. B., *et al.*
Conformations at local energy minimums for gramicidin S: optical calculations, E. S. Pysh, 290
Contraceptives (*letters*), P. A. Corfman and C. Djerassi, 1315
Control of form in cells (*meeting report*), B. Satir, 307
Coons, E. E. *See* Kestenbaum, R. S., *et al.*
Cooper, G. P.: Response of olfactory bulb neurons to x-rays as a function of nasal oxygen concentration, 1726.
Cooper, J. A. *See* Perkins, R. W., *et al.*
Coppens, P., *et al.*: Electron population parameters from least-squares refinement of x-ray diffraction data, 1126
Cordes, E. *See* Meinschein, W. G., *et al.*
Corfman, P. A., and C. Djerassi: Contraceptives (*letters*), 1315
CORNWALL, I. W., Prehistoric animals and their hunters, *book review* of, 1241
Corriol, J. *See* Joanny, P., *et al.*
CORSA, L., JR. *See* BEHRMAN, S. J., *et al.*
Cortical unit activity in desynchronized sleep, R. W. McCarley and J. A. Hobson, 901
Cosmic ray production of rare gas radioactivities and tritium in lunar material, R. W. Stoenner *et al.*, 553
Cosmogenic and primordial radionuclides in lunar samples by nondestructive gamma-ray spectrometry, R. W. Perkins *et al.*, 577
Costes, N. C., *et al.*: Apollo 11 soil mechanics investigation, 739
Countercurrent chromatography: liquid-liquid partition chromatography without solid support, Y. Ito and R. L. Bowman, 281
Countercurrent system in the renal cortex of rats, M. Steinhausen *et al.*, 1631
Cover pictures: clay figure (23 Jan.); composite of uranium oxide and tungsten (13 Feb.): computer-based education (20 Mar.); growth surface of the nacreous layer in *Pinctada radiata* (13 Mar.); kangaroo doe (27 Feb.); leaf surface of *Pinguicula grandiflora* (9 Jan.); male golden hamster (16 Jan.); meteoritic body (30 Jan.); proposed U.S. supersonic transport (2 Jan.); protonymph of the North American house dust mite (6 Mar.); rupturing oocyst of *Plasmodium mexicanum* (6 Feb.); view of Malekula, New Hebrides (20 Feb.); Washington Cathedral (27 Mar.)
Coward, S. J.: *book review* of Planarian regeneration, 1117
Craddock, E.: Chromosome number variation in a stick insect *Didymuria violescens* (Leach), 1380
Crafty, ambitious authors (*letter*), R. E. Whalen, 1318
Cramer, C. H.: Viscosity of the Atlantic Ocean bottom, 1123
Cranberg, L.: Defense of science (*letter*), 1669
Cremers, C. J. *See* Birkebak, R. C., *et al.*
Cretinism in rats: enduring behavioral deficit induced by tricyanoaminopropene, J. W. Davenport, 1007
Crewe, A. V. *See* Anderson, A. T., Jr., *et al.*
Crick, F. H. C. *See* Wilkins, M. H. F., *et al.*
Crisis of crises, A (*editorial*), W. D. McElroy, 9
Critical flicker-fusion of solid and annular stimuli, D. N. Robinson, 207
Cross-reactions of oncogenic viruses (*meeting report*), L. R. Sibal and M. A. Fink, 309
Crovetti, A. J. *See* Viste, K. L., *et al.*
Crozaz, G., *et al.*: Solid state studies of the radiation history of lunar samples, 563
Cruickshank, A. M.: Gordon Research Conferences (*meeting report*), 1390
Crustal plates in the central Atlantic, M. M. Ball and C. G. A. Harrison, 1128
Crystallization of some lunar mafic magmas and generation of rhyolitic liquid, I. Kushiro *et al.*, 610; *erratum*, 1759

Crystallography of some lunar plagioclases, D. B. Stewart *et al.*, 634
Csonka, L. *See* Coppens, P., *et al.*
Currie, D. G. *See* Alley, C. O., *et al.* (23 Jan.). *See also* Alley, C. O., *et al.* (30 Jan.)
Curvin, J. W. *See* Potter, V. R., *et al.*
Cushley, R. J. *See* Lipsky, S. R., *et al.*
Cuttitta, F. *See* Rose, H. J., Jr., *et al.*
Cyclitols and phosphoinositides, F. EISENBERG, JR. (Ed.), *book review* by C. E. Ballou, 1481
Cystic fibrosis: characterization of the inhibitor to ciliary action in oyster gills, B. H. Bowman *et al.*, 871
Cytogenetic studies with cyclamate and related compounds, D. R. Stoltz *et al.*, 1501

D

Dahlem, D. H. *See* Shoemaker, E. M., *et al.*
Dainty, J.: *book review* of Transport and distribution of matter in cells of higher plants, 859
Daley, G. G. *See* Steinberg, A. D., *et al.*
Dalgarno, A., *et al.*: Mariner 6: origin of Mars ionized carbon dioxide ultraviolet spectrum, 1490
Dalrymple, G. B., and R. R. Doell: Thermoluminescence of lunar samples, 713
D'Amico, J. C. *See* Fireman, E. L., *et al.*
Danchin, R. V. *See* Ahrens, L. H.
Daneš, Z. F.: Earthquake occurrence in the state of Washington, 396
Daniel, V., *et al.*: Bacteriophage induced transfer RNA in *Escherichia coli*, 1682
Danielli, J. F. *See* Jeon, K. W., *et al.*
Dausset, J. *See* Rapaport, F. T.
Davenport, J. W.: Cretinism in rats: enduring behavioral deficit induced by tricyanoaminopropene, 1007
Daves, G. D., Jr. *See* Eggers, H. J., *et al.*
Davis, C. *See* Vahouny, G. V., *et al.*
Davis, C. C. *See* Johnson, R. D.
Davis, P. K. *See* Reynolds, J. H., *et al.*
Davis, R., Jr. *See* Stoenner, R. W., *et al.*
Davis, R. B.: Indian agriculture: modern methods produce good harvests (*letter*), 126
Davis, R. S. *See* Dupree, L., *et al.*
Davis, V. E., and M. J. Walsh: Alcohol, amines, and alkaloids: a possible biochemical basis for alcohol addiction, 1005
DAVITASHVILI, L. SH., Prichiny vymiraniya organizmov (Causes of extinction of organisms), *book review* of, 273; Voprosy metodologii v izuchenii organicheskogo mira (Problems of methodology in the study of evolution of the organic world), *book review* of, 273;
Daw, N. W. *See* Pearlman, A. L.
Dawson, G. D., *et al.*: Dorsal root potentials produced by stimulation of fine afferents, 1385
Dawson, J. P. *See* Birkebak, R. C., *et al.*
Dayton, P. G. *See* McNay, J. L.
DeBaun, J. R., *et al.*: Reactivity in vivo of the carcinogen *N*-hydroxy-2-acetylaminofluorene: increase by sulfate ion, 184
DEBUS, A. G., *et al.* (Eds.), World who's who in science, *book review* of, 363
Deceptions in the illicit drug market, F. E. Cheek *et al.*, 1276
DeFelice, J. C. *See* Fireman, E. L., *et al.*
Defense of science (*letter*), L. Cranberg, 1669
Deformation of silicates from the Sea of Tranquillity, N. L. Carter *et al.*, 666
Degges, T. C. *See* Dalgarno, A., *et al.*
Deinhardt, F., *et al.*: ST-Feline fibrosarcoma virus: induction of tumors in marmoset monkeys, 881
Deitchman, J. W. *See* Albright, J. F., *et al.*
Delany, A. C. *See* Shedlovsky, J. P., *et al.*
Delsemme, A. H., and A. Wenger: Superdense water ice, 44
Demography of primitive populations, The, N. McArthur, 1097
Dence, M. R. *See* Douglas, J. A. V., *et al.*
Dennis, M. J. *See* Harris, A. J.
Dentin matrix transformation: rapid induction of alkaline phosphatase and cartilage, C. B. Huggins and M. R. Urist, 896
Denver earthquakes, E. Karp and R. B. Simon, 1518
Derr, J. *See* Latham, G. V., *et al.*
Desalination of cold seawater (*letter*), R. D. Gerard, 1564
Deserts of the world, W. G. MC GINNIES *et al.* (Eds.), *book review* by M. Evenari, 968
Determination of manganese-53 by neutron activation and other miscellaneous studies on lunar dust, W. Herr *et al.*, 747
Deutsch, J. A. *See* Kestenbaum, R. S., *et al.*
de Vaucouleurs, G.: The case for a hierarchical cosmology, 1203
DEVONS, S. (Ed.), Biology and the physical sciences, *book review* of, 272
De Wet, J. M. J. *See* Harlan, J. R., *et al.*
Dextranase activity in coleoptiles of *Avena*, A. N. J. Heyn, 874
Diamond, H. *See* Fields, P. R., *et al.*
Dicke, R. H. *See* Alley, C. O., *et al.* (30 Jan.)
Dickey, J. S., Jr. *See* Wood, J. A., *et al.*
Dickinson, D. F. *See* Ball, J. A., *et al.*
Dietz, R. S., and W. P. Sproll: Fit between Africa and Antarctica: a continental drift reconstruction, 1612
Differentiation of populations, A. M. Shapiro *et al.*, 1636
Diffraction and Mössbauer studies of minerals from lunar soils and rocks, P. Gay *et al.*, 626
Dimethylpropynylbenzamides: a new group of herbicides, K. L. Viste *et al.*, 280
Directional hearing: effect of unilateral change of the sound duration, N. Y. Alexeenko, 1009
Discrimination by rats of conspecific odors of reward and nonreward, R. R. Morrison and H. W. Ludvigson, 904
Djerassi, C. *See* Corfman, P. A.
DNA synthesis in the anterior pituitary of the male rat: effect of castration and photoperiod, W. C. Hymer *et al.*, 1629
DOBSON, R. L. *See* MONTAGNA, W.
Doell, R. R. *See* Dalrymple, G. B.
Doell, R. R., *et al.*: Magnetic studies of lunar samples, 695
DOHRENWEND, B. P., and B. S. DOHRENWEND, Social status and psychological disorder, *book review* of, 1363
DOHRENWEND, B. S. *See* DOHRENWEND, B. P.
Dollfus, A. *See* Geake, J. E., *et al.*
Domestic animals of China, H. EPSTEIN, *book review* by C. A. Reed, 1713
Dominance and the niche in ecological systems, S. J. McNaughton and L. L. Wolf, 131
Donohue, J. *See* Wilkins, M. H. F., *et al.*
Don't overlook Berkeley (*letter*), R. van den Bosch, 1561
Doppler shift measurements of nuclear lifetimes, J. R. MacDonald, 1339
Dorman, J. *See* Latham, G. V., *et al.*
Dorsal root potentials produced by stimulation of fine afferents, G. D. Dawson *et al.*, 1385
Doskotch, R. W., *et al.*: Elm bark derived feeding stimulants for the smaller European elm bark beetle, 380
DOTT, R. H., SR., and M. J. REYNOLDS, Sourcebook for petroleum geology, *book review* of, 1481
Douglas, J. A. V., *et al.*: Mineralogy and deformation in some lunar samples, 594
Douša, T., *et al.*: [8-Arginine]-vasopressinoic acid: an inhibitor of rabbit kidney adenyl cyclase, 1134
Downes, J. A.: *book review* of The Kodiak Island refugium, 1242
DRABKIN, I. E. *See* DRAKE, S.
Draffan, G. H. *See* Abell, P. I., *et al.*
Drake, J. C. *See* Frondel, C., *et al.*
Drake, M. J. *See* Weill, D. F., *et al.*
DRAKE, S., and I. E. DRABKIN, Mechanics in sixteenth-century Italy, *book review* of, 169
Drever, J. I. *See* Arrhenius, G., *et al.*
Drew, C. M. *See* Nagy, B., *et al.*
Drosophila melanogaster: identity of male lipid in reproductive system, G. Brieger and F. M. Butterworth, 1262
Drug detection (*letter*), A. J. Bauman, 6
Drug quality: whose responsibility? (*letter*), A. E. Slesser, 1439
Dry lands and desalted water, G. Young, 339
Dube, S. *See* Fresco, J. R., *et al.*
Dubey, J. P. *See* Frenkel, J. K., *et al.*
Dubuc, J. P., and R. C. McGinnis: Somatic association in *Avena sativa L.*, 999
Duennebier, F. *See* Latham, G. V., *et al.*
Duffield, A. *See* Ponnamperuma, C., *et al.*
DUKE, C. B., Tunneling in solids, *book review* of, 1244
Duke, M. B., *et al.*: Lunar soil: size distribution and mineralogical constituents, 648
Dunham, A. C. *See* Bailey, J. C., *et al.*
Dunne, B. B.: Transverse wave instability in a solid explosive, 1124
Duplicate plating of immune cell products: analysis of globulin class secretion by single cells, B. Merchant and Z. Brahmi, 69
Dupree, L., *et al.*: Ghar-i-Mordeh Gusfand (Cave of the Dead Sheep): a new Mousterian locality in north Afghanistan, 1610
Dutton, J. A., and H. A. Panofsky: Clear air turbulence: a mystery may be unfolding, 937
Dwornik, E. J. *See* Rose, H. J., Jr., *et al. See also* Ross, M., *et al.*

E

Early and Middle Preclassic culture in the basin of Mexico, P. Tolstoy and L. I. Paradis, 344
Early canid burial from the western Ozark highland, R. B. McMillan, 1246
Early experience effects upon cortical dendrites: a proposed model for development, S. Schapiro and K. R. Vukovich, 292
Earthquake occurrence in the state of Washington, Z. F. Daneš, 396
Earthquakes and nuclear detonations, D. L. Anderson *et al.*, 1011
Eberhard, P. H. *See* Alvarez, L. W., *et al.* (30 Jan.)
Eberhardt, P., *et al.*: Trapped solar wind noble gases, Kr^{81}/Kr exposure ages and K/Ar ages in Apollo 11 lunar material, 558
Ebert, J. D.: *book review* of Cellular immunology and Self and not-self, 1608
Economics of sea-level canal (*letter*), D. B. Brooks, 124
Economou, T. E. *See* Franzgrote, E. J., *et al. See also* Turkevich, A. L., *et al.*
Edgington, J. A., and I. M. Blair: Luminescence and thermoluminescence induced by bombardment with protons of 159 million electron volts, 715
Edinger, J. G.: *book review* of Invention of the meteorological instruments, 166
Editorials: Chance, or human judgment?, 1201; Concern for the next generation, 1441; Crisis of crises, A, 9; Long-term efforts to clean the environment, 1081; The Moon issue, 447; The need for basic research, 935; The next industrial revolution, 1673; Population control, sterilization, and ignorance, 337; Progress in abating air pollution, 1567; Russian roulette?, 1323; Selective Service and college enrollment, 129; Social responsibilities of scientists, 241; Threatened faculty pensions, 823
Edmunds, L. N., Jr. *See* Jarrett, R. M.
Efron, L. *See* Anderson, J. D., *et al.*
Eggers, H. J., *et al.*: Rhodanine: a selective inhibitor of the multiplication of echovirus 12, 294
Eglinton, G. *See* Abell, P. I., *et al.*
Egypt to Canterbury (*letters*), J. J. Jacobson and L. B. Borst, 333
Ehmann, W. D., and J. W. Morgan: Oxygen, silicon, and aluminum in lunar samples by 14 MeV neutron activation, 528
Ehrlich, P. R. *See* Shapiro, A. M., *et al.*
Ehrman, L.: Simulation of the mating advantage in mating of rare *Drosophila* males, 905
Eirich, F. R.: Two-way benefits of defense research (*letter*), 1198
Eisenbach, G. M. *See* Steinhausen, M., *et al.*
EISENBERG, F., JR. (Ed.), Cyclitols and phosphoinositides, *book review* of, 1481
Eisenberg, L.: Student unrest: sources and consequences, 1688
Eisner, T., *et al.* (*editorial*): Population control, sterilization, and ignorance, 337
Elastic wave velocities of lunar samples at high pressures and their geophysical implications, H. Kanamori *et al.*, 726
El-Baz, F.: Lunar igneous intrusions, 49
El Bedwei, F. *See* Alvarez, L. W., *et al.* (6 Feb.)
Eldridge, J. S. *See* O'Kelley, G. D., *et al.*
Electron-microprobe analyses of phases in lunar samples, N. G. Ware and J. F. Lovering, 517
Electron microprobe analysis of lunar samples, I. Adler *et al.*, 590
Electron population parameters from least-squares refinement of x-ray diffraction data, P. Coppens *et al.*, 1126
Element 104: what's in a name? (*letter*), L. A. Page, 1076
Elemental composition of lunar surface material, A. A. Smales *et al.*, 509
Elemental compositions and ages of lunar samples by nondestructive gamma-ray spectrometry, G. D. O'Kelley *et al.*, 580
El Goresey, A. *See* Ramdohr, P.
Elimination of sodium-24 and potassium-42 interferences in activation analysis of biological samples, C. W. Tang and C. J. Maletskos, 52
Elleman, D. D. *See* Manatt, S. L., *et al.*
ELLIOTT, D. H. *See* BENNETT, P. B.
Elm bark derived feeding stimulants for the smaller European elm bark beetle, R. W. Doskotch *et al.*, 380
Emeleus, C. H. *See* Brown, G. M., *et al.*
Emiliani, C. *See* Anderson, D. L., *et al.*
Emission spectrographic determination of trace elements in lunar samples, C. Annell and A. Helz, 521

Encyclopedia of marine resources, The, F. E. FIRTH (Ed.), *book review* by J. A. Gulland, 1714A
Endogenous carbon in carbonaceous meteorites, J. W. Smith and I. R. Kaplan, 1367
Energy: the ultimate raw material (*letter*), R. P. Hammond, 1439
Engel, A. E. J., and C. G. Engel: Lunar rock compositions and some interpretations, 527
Engel, C. G. *See* Engel, A. E. J.
Enhancement of photoalteration of cyclodiene insecticide chemical residues by rotenone, G. W. Ivie and J. E. Casida, 1620
Environmental and genetical contributions to class difference: a model experiment, J. M. Thoday and J. B. Gibson, 990
Enzyme handbook, T. E. BARMAN, *book review* by J. F. Riordan, 860
Enzyme regulation in mammalian tissues (*meeting report*), G. Weber, 1018
Epstein, E. *See* Bernstein, L., *et al.*
EPSTEIN, H., Domestic animals of China, *book review* of, 1713
Epstein, S., and H. P. Taylor, Jr.: $^{18}O/^{16}O$, $^{30}Si/^{28}Si$, D/H, and $^{13}C/^{12}C$ studies of lunar rocks and minerals, 533
Epstein, S. M. *See* Slifkin, M., *et al.*
Ericson, D. B., and G. Wollin: Pleistocene climates in the Atlantic and Pacific oceans: a comparison based on deep-sea sediments, 1483
Errata: for A. D. Kelmer and M. P. Stulberg (16 Jan., p. 258), 852; for moon issue (30 Jan.), 852, 1758, 1759; for E. Nelson and M. Rennels (16 Jan., p. 301), 1476; for News and Comment (9 Jan., p. 153), 1476
Ertürk, E. *See* Bryan, G. T.
Eskimos' language links (*letter*), C. F. Fromme, Jr., 238
Essene, E. *See* Ringwood, A. E.
Esson, J. *See* Bailey, J. C., *et al.*
Esthetics of asymmetry (*letter*), R. T. Feller, 1669
Ethical standards: in search of a protector (*letter*), E. N. Brewer, 1320
Eugster, O. J. *See* Albee, A. L., *et al.*
Evans, D. K. *See* Longhurst, A. R.
Evans, H. T., Jr.: Lunar troilite: crystallography, 621
Evans, J. C., Jr. *See* Shedlovsky, J. P., *et al.*
Evenari, M.: *book review* of Arid lands in perspective and Deserts of the world, 968
Everson, J. *See* Arrhenius, G., *et al.*
Evidence and implications of shock metamorphism in lunar samples, N. M. Short, 673
Evidence for solid carbon dioxide in the upper atmosphere of Mars, K. C. Herr and G. C. Pimentel, 47
Evolution in changing environments, R. LEVINS, *book review* by W. D. Hamilton, 1478
Ewing, G. C. *See* Clarke, G. L., *et al.*
Ewing, M. *See* Latham, G. V., *et al.*
EWING, M., *et al.*, Initial reports of the deep sea drilling project, *book review* of, 1712
Experience in hepatic transplantation, T. E. STARZL, *book review* by P. S. Russell, 364
Experience of living in cities, The, S. Milgram, 1461
Experimental malaria, E. H. SADUN and A. P. MOON (Eds.), *book review* by S. R. Telford, Jr., 1608
Experimental petrology of lunar material: the nature of mascons, seas, and the lunar interior, M. J. O'Hara *et al.*, 605

F

Fabry's disease: alpha-galactosidase deficiency, J. A. Kint, 1268
Facilitation of spindle-burst sleep by conditioning of electroencephalographic activity while awake, M. B. Sterman *et al.*, 1146
Fakhry, A. *See* Alvarez, L. W., *et al.* (6 Feb.)
Faller, J. E. *See* Alley, C. O., *et al.* (30 Jan.)
Family-planning programs, B. BERELSON (Ed.), *book review* by M. Macura, 1606
Family size and sex-role stereotypes, F. E. Clarkson *et al.*, 390
Farber, E. *See* Slifkin, M., *et al.*
Far-infrared observations of the night sky: different data, D. P. McNutt *et al.*, 1277
Farris, S. H. *See* Whitney, H. S.
Feldman, P. D. *See* McNutt, D. P., *et al.*
Felig, P., *et al.*: Alanine: key role in gluconeogenesis, 1003
Feller, R. T.: Esthetics of asymmetry (*letter*), 1669
Fernández-Morán, H., *et al.*: Mössbauer effect and high-voltage electron microscopy of pyroxenes in type B samples, 686
Ferone, R., *et al.*: Altered dihydrofolate reductase associated with drug-resistance transfer between rodent *Plasmodia*, 1263
Fertility and family planning, S. J. BEHRMAN *et al.* (Eds.), *book review* by M. Macura, 1606
Fesolowich, A., *et al.*: Fiber composite alloys: preparation by controlled dissociation of metallic solid solutions, 1374
Fetal response to viral infection: interferon production in sheep, J. C. Overall, Jr., and L. A. Glasgow, 1139
Fiber composite alloys: preparation by controlled dissociation of metallic solid solutions, A. Fesolowich *et al.*, 1374
Fielder, G. *See* Bastin, J. A., *et al.*
Fields, H. L., and D. L. Winter: Somatovisceral pathway: rapidly conducting fibers in the spinal cord, 1729
Fields, P. R., *et al.*: Isotopic abundances of actinide elements in lunar material, 499
Fineberg, S. E., and T. J. Merimee: Proinsulin: metabolic effects in the human forearm, 998
Finger, F. G. *See* Shurcliff, W. A., *et al.*
Finger, F. G., and R. M. McInturff: Meteorology and the supersonic transport, 16
Finger, L. W. *See* Haggerty, S. E., *et al.*
Fink, M. A. *See* Sibal, L. R.
Finkel, R. C. *See* Shedlovsky, J. P., *et al.*
Finkelman, R. B.: Magnetic particles extracted from manganese nodules: suggested origin from stony and iron meteorites, 982. *See also* Duke, M. B., *et al.*
Finney, K. F. *See* Pomeranz, Y., *et al.*
Fiori, C. *See* Heinrich, K. F. J., *et al.*
Fireman, E. L., *et al.*: Tritium and argon radioactivities in lunar material, 566; *erratum*, 852, 1759
FIRTH, F. E. (Ed.), The encyclopedia of marine resources, *book review* of, 1714A
Fish stocks: biochemical and serological identification (*meeting report*), A. E. Mourant, 1760
Fisher, R. M. *See* Nagata, T., *et al. See also* Radcliffe, S. V., *et al.*
Fisher, R. V. *See* Grine, D. R., *et al.*
Fit between Africa and Antarctica: a continental drift reconstruction, R. S. Dietz and W. P. Sproll, 1612
FITTKAU, E. J., *et al.* (Eds.), Biogeography and ecology in South America, *book review* of, 275
Fitzgerald, R. W. *See* Arrhenius, G., *et al.*
Fleischer, R. L., *et al.*: Particle track, x-ray, thermal, and mass spectrometric studies of lunar material, 568
Flock, A. *See* Harris, G. G., *et al.*
Floral inducing extract from *Xanthium*, H. K. Hodson and K. C. Hamner, 384
Flory, D. A. *See* Oró, J., *et al.*
Fluid transport: concentration of the intercellular compartment, B. J. Wall *et al.*, 1497
Fluorometric examination of a lunar sample, J. H. Rho *et al.*, 754
Foa, U. G.: *book review* of Interaction concepts of personality, 858
Folkers, K. *See* Eggers, H. J., *et al.*
Ford, A. B.: Casualties of our time, 256
Ford, L. E., and R. J. Podolsky: Regenerative calcium release within muscle cells, 58
Forget, B. G., and B. Jordan: *5S* RNA synthesized by *Escherichia coli* in presence of chloramphenicol: different 5′-terminal sequences, 382
Fortin-Magana, R., *et al.*: Intestinal enzymes: indicators of proliferation and differentiation in the jejunum, 1627
Foss, T. H. *See* Richardson, K. A., *et al.*
Fourier analysis and the structure of DNA, M. H. F. Wilkins *et al.*, 1693
Fowler, C. W. *See* Kinloch, B. B., Jr., *et al.*
Fox, D. *See* Silvers, W. K., *et al.*
Fox, S. W., *et al.*: Bio-organic compounds and glassy microparticles in lunar fines and other materials, 767
Fox, T. O., and A. B. Pardee: Animal cells: noncorrelation of length of G_1 phase with size after mitosis, 80
Franke, R. H. *See* Barrett, G. V.
Frant, M. S., and J. W. Ross, Jr.: Potassium ion specific electrode with high selectivity for potassium over sodium, 987
Franzgrote, E. J. *See* Turkevich, A. L., *et al.*
Franzgrote, E. J., *et al.*: Chemical composition of the lunar surface in Sinus Medii, 376
Fraumeni, J. F., Jr., *et al.*: Simian virus 40 in polio vaccine: follow-up of newborn recipients, 59
Frazer, J. Z. *See* Arrhenius, G., *et al.*
Fredriksson, K. *See* Mason, B., *et al.*
Fredriksson, K., *et al.*: Lunar glasses and microbreccias: properties and origin, 664
FREEDMAN, R. *See* BEHRMAN, S. J., *et al.*
French, B. M. *See* Adler, I., *et al.*
Frenkel, J. K., *et al.*: *Toxoplasma gondii* in cats: fecal stages identified as coccidian oocysts, 893
Fresco, J. R., *et al.*: Shapiro's defection (*letters*), 1668
FRIEDMAN, G. M. *See* MÜLLER, G.
Friedman, H. *See* Chakrabarty, A. K.
Friedman, I., *et al.*: Water, hydrogen, deuterium, carbon, carbon-13, and oxygen-18 content of selected lunar material, 538
Friend, C. *See* Rossi, G. B.
Frishkopf, L. S. *See* Harris, G. G., *et al.*
Fromme, C. F., Jr.: Eskimos' language links (*letter*), 238
Frondel, C., *et al.*: Mineralogy and composition of lunar fines and selected rocks, 681
Fruchter, J. S. *See* Shedlovsky, J. P., *et al.*
Fryer, G. E. *See* Heymann, D., *et al.*
Fryxell, R., *et al.*: Apollo 11 drive-tube core samples: an initial physical analysis of lunar surface sediment, 734
Fuchs, L. H. *See* Reed, G. W., Jr., *et al.*
Fujita, H. *See* Arrhenius, G., *et al.*
Fuller, R. W.: Mistaken identity (*letter*), 1562
Fulton, C.: Transformation of *Tetramitus* amebae into flagellates, 1269
Funkhouser, J. G., *et al.*: Gas analysis of the lunar surface, 561
Furst, A. *See* Eggers, H. J., *et al.*
Fyfe, W. S. *See* Bailey, J. C., *et al.*

G

Galaske, R. *See* Steinhausen, M., *et al.*
Gallium, germanium, indium, and iridium in lunar samples, P. A. Baedecker and J. T. Wasson, 503
Gallium-67 localization in rat and mouse tumors, R. L. Hayes *et al.*, 289
Gallup, G. G., Jr.: Chimpanzees: self-recognition, 86
Galston, A. W.: Herbicides: no margin of safety (*letter*), 237
Ganapathy, R. *See* Keays, R. R., *et al.*
Gangadharam, E. V. *See* Morrison, G. H., *et al.*
Ganong, W. F.: *book review* of Physiology and pathology of adaptation mechanisms, 1243
Garlick, G. F. J. *See* Geake, J. E., *et al.*
Garrahan, P. J. *See* Rega, A. F., *et al.*
Garriott, O. K.: What price the lunar rocks? (*letter*), 819
Gas analysis of the lunar surface, J. G. Funkhouser *et al.*, 561
Gast, P. W., and N. J. Hubbard: Abundance of alkali metals, alkaline and rare earths, and strontium-87/strontium-86 ratios in lunar samples, 485
Gaur, B. K. *See* Mishra, S. D.
Gay, P., *et al.*: Diffraction and Mössbauer studies of minerals from lunar soils and rocks, 626
Geake, J. E., *et al.*: Luminescence, electron paramagnetic resonance, and optical properties of lunar material, 717
Geddes, L. A.: Bioelectrical impedance (*meeting report*), 1761
Gehrke, C. *See* Ponnamperuma, C., *et al.*
Geiss, J. *See* Eberhardt, P., *et al.*
Gelber, G., *et al.*: Population controls (*letters*), 1438
Gelboin, H. V., and H. B. Levy: Polyinosinic-polycytidylic acid inhibits chemically induced tumorigenesis in mouse skin, 205
Geller, E. *See* Wetterberg, L., *et al.*
Gene regulation in mammalian cells (*meeting report*), S. Gluecksohn-Waelsch, 1524
Genetic markers in human blood, E. R. GIBLETT, *book review* by W. E. Nance, 1365
Genetics of schizophrenic and schizoid disease, The, L. L. Heston, 249
Gerard, J. T. *See* Morrison, G. H., *et al.*
Gerard, R. D.: Desalination of cold seawater (*letter*), 1564
Gerber, H. S., and E. C. Klostermeyer: Sex control by bees: a voluntary act of egg fertilization during oviposition, 82
Gerdes, R. J., *et al.*: Refractory oxide–metal composites: scanning electron microscopy and x-ray diffraction of uranium dioxide–tungsten, 979
Geschwind, N.: Letter to Argentina (*letter*), 1321
Ghar-i-Mordeh Gusfand (Cave of the Dead Sheep): a new Mousterian locality in north Afghanistan, L. Dupree *et al.*, 1610
GHISELIN, M. T., The triumph of the Darwinian method, *book review* of, 1362

Giant panda doesn't travel (*letter*), H. M. Shapiro, 1438
Gibbs, G. E., and G. D. Griffin: Beta glucuronidase activity in skin components of children with cystic fibrosis, 993
Gibert, J. *See* Oró, J., *et al.*
GIBLETT, E. R., Genetic markers in human blood, *book review* of, 1365
Gibson, E. K. *See* Moore, C. B., *et al.*
Gibson, J. B. *See* Thoday, J. M.
Gil-Av, E. *See* Oró, J., *et al.*
Gilbert, R. *See* Azumaya, G., *et al.*
Girgis, A. *See* Alvarez, L. W., *et al.* (6 Feb.)
GLAGOLEVA, N. N. *See* GLAZOV, V. M., *et al.*
Glasgow, L. A. *See* Overall, J. C., Jr.
Glass, B. P. *See* Adler, I., *et al.*
Glassman, J. K. (*News and Comment*): AAAS Boston meeting, 36; Harvard genetics researcher quits science for politics, 963
GLAZOV, V. M., *et al.*: Liquid semiconductors, *book review* of, 972
GLAZOV, V. M., and V. S. ZEMSKOV, Physicochemical principles of semiconductor doping, *book review* of, 276
Gleason, J. D. *See* Friedman, I., *et al.*
Glinsmann, W., *See* Klein, D. C., *et al.*
Glucose production by lamprey meninges, C. M. Rovainen, 889
Gluecksohn-Waelsch, S.: Gene regulation in mammalian cells (*meeting report*), 1524
Glyceryl ether metabolism: regulation of buoyancy in dogfish *Squalus acanthias*, D. C. Malins and A. Barone, 79
Glycine inhibition of asparaginase, W. L. Ryan and H. C. Sornson, 1512
Gold, E. *See* Fraumeni, J. F., Jr., *et al.*
Gold, T., *et al.*: Optical and high-frequency electrical properties of the lunar sample, 707
Goldberg, E. D.: *book review* of Handbook of geochemistry, 1115
GOLDMAN, B. J. *See* MC GINNIES, W. G. *See also* MC GINNIES, W. G., *et al.*
Goldman, I.: What's behind a label? (*letter*), 237
Goldsmith, J. R. *See* Anderson, A. T., Jr., *et al.*
Goldstein, J. I. *See* Adler, I., *et al.*
Goles, G. G., *et al.*: Instrumental neutron activation analyses of lunar specimens, 497
Gonads, The, K. W. MC KERNS (Ed.), *book review* by L. T. Samuels, 43
Goneid, A. *See* Alvarez, L. W., *et al.* (6 Feb.)
Good, R., *et al.*: Scientific writing (*letters*), 932
Good, R. H. *See* Gelber, G., *et al.*
GOODWIN, T. W. (Ed.), Porphyrins and related compounds, *book review* of, 1117
Gopalan, K., *et al.*: Rubidium-strontium, uranium, and thorium-lead dating of lunar material, 471
Gordon Research Conferences (*meeting report*), A. M. Cruickshank, 1390
Gorman, A. L. F. *See* Marmor, M. F.
Grabar, D. G. *See* Castellion, G. A., *et al.*
Graf, H. *See* Eberhardt, P., *et al.*
Granados, R. R. *See* Chen, T.
Grand titration, The, J. NEEDHAM, *book review* by W. H. McNeill, 367
Grant, R. W. *See* Muir, A. H., Jr., *et al.*
Graves, C. N., and J. D. Biggers: Carbon dioxide fixation by mouse embryos prior to implantation, 1506
Gray, A. P., and A. W. Austin: Should college applicants be selected by lottery? (*letters*), 1075
GRAY, C. H., and A. L. BACHARACH (Eds.), Hormones in blood, *book review* of, 1366
Greatest of these is charity (*letter*), G. E. Janssen, 933
Greaves, J. R. *See* McClain, E. P., *et al.*
Greenberg, D. S. (*News and Comment*): Britain weighs plan to make government labs earn their way, 964; CERN's new accelerator, but no decision on site, 358, 1231; educational reform in West Germany, 1108; European group setting up a technology institute, 850; France is putting scientists into its embassies, 1230; Italy and science, 1704; research in Britain, 1596
Greene, M. L., *et al.*: Substrate stabilization: genetically controlled reciprocal relationship of two human enzymes, 887
Greenman, N. N., and H. G. Gross: Luminescence of Apollo 11 lunar samples, 720
Greenough, W. B., III: Mortality and fertility: causal link (*letter*), 237
Greenwood, N. N. *See* Runcorn, S. K., *et al.*
Greenwood, W. *See* Fryxell, R., *et al. See also* McKay, D. S., *et al. See also* Richardson, K. A., *et al.*
Greer, R. E. *See* Bischoff, J. L., *et al.*
Greer, R. T. *See* Nash, D. B., *et al.*
Griffin, G. D. *See* Gibbs, G. E.
Griggs, D. T. *See* Radcliffe, S. V., *et al.*
Grine, D. R., *et al.*: Bed forms in base-surge deposits: lunar implications, 1637
Griswold, E. *See* Hymer, W. C., *et al.*
Grögler, N. *See* Eberhardt, P., *et al.*
Grommé, C. S. *See* Doell, R. R., *et al.*
Gross, H. G. *See* Greenman, N. N.
Grossman, J. J., *et al.*: Surface properties of lunar samples, 743
Growth in vitro of cells from hyperplastic nodules of liver induced by 2-fluorenylacetamide or aflatoxin B_1, M. Slifkin *et al.*, 285
Gruchow, N. (*News and Comment*): Columbia University curbs classified research, 362; criminal justice studies, 1474; detergents: side effects of the washday miracles, 151; environmental council named, 851; NASA has further cuts in university support spending, 1107; Panalba, 1710
Gulland, J. A.: *book review* of The encyclopedia of marine resources, 1714A
Gunner, S. W. *See* Stoltz, D. R., *et al.*

H

Haack, U. *See* Crozaz, G., *et al.*
Haberman, J. D.: *book review* of Medical thermography, 1714A
Habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, H. Pinsker *et al.*, 1740
HACK, M. (Ed.), Mass loss from stars, *book review* of, 971
Hafner, S. S. *See* Fernández-Morán, H., *et al.*
Haggerty, S. E., *et al.*: Iron-titanium oxides and olivine from 10020 and 10071, 613
Haines, E. L. *See* Fleischer, R. L., *et al.*
Hair growth, W. MONTAGNA and R. L. DOBSON (Eds.), *book review* by E. J. Van Scott, 1118
Hair, M. *See* Crozaz, G., *et al.*
Hait, M. H. *See* Shoemaker, E. M., *et al.*
Halpern, B. *See* Hodgson, G. W., *et al. See also* Ponnamperuma, C., *et al.*
Hamilton, A. (*News and Comment*): Food and Drug Administration, 268; Laird warns of "Soviet technological threat," 1360; Laird decentralization alters civilian and military roles, 965; Laird seeks industry aid to defeat Mansfield amendment, 1599; M.I.T.: March 4 revisited amid political turmoil, 1475; NASA; stretching out space program, 356; Nixon's White House staff, 1232; strategic arms talks. *See also* Boffey, P. M., *et al.*
Hamilton, L. D. *See* Wilkins, M. H. F., *et al.*
Hamilton, P. B. *See* Nagy, B., *et al.*
Hamilton, W. D.: *book review* of Evolution in changing environments, 1478
Hammond, R. P.: Energy: the ultimate raw material (*letter*), 1439
Hamner, K. C. *See* Hodson, H. K.
Han, J. *See* Burlingame, A. L., *et al.*
HANAWALT, P. C. *See* SMITH, K. C.
Hanneman, R. E. *See* Fleischer, R. L., *et al.*
Hanor, J. S. *See* Arrhenius, G., *et al.*
Hanzlik, H. *See* Gelber, G., *et al.*
Hapke, B. W., *et al.*: Solar radiation effects in lunar samples, 745
Harada, K. *See* Fox, S. W., *et al.*
Haramura, H. *See* Kushiro, I., *et al.*
Hardcastle, K. *See* Friedman, I., *et al.*
Harderian gland: an extraretinal photoreceptor influencing the pineal gland in neonatal rats?, L. Wetterberg *et al.*, 884
Hare, F. K.: How should we treat environment?, 352
Hare, P. E. *See* Fox, S. W., *et al.*
Hargraves, R. B., *et al.*: Compositional zoning and its significance in pyroxenes from three coarse-grained lunar samples, 631
Harlan, J. R., *et al.*: Chromosome pairing within genomes in maize-*Tripsacum* hybrids, 1247
Handbook of geochemistry, K. H. WEDEPOHL (Ed.), *book review* by E. D. Goldberg, 1115
Harris, A. J., and M. J. Dennis: Acetylcholine sensitivity and distribution on mouse neuroblastoma cells, 1253
Harris, G. G., *et al.*: Receptor potentials from hair cells of the lateral line, 76
HARRIS, H. Nucleus and cytoplasm, *book review* of, 165
Harrison, C. G. A. *See* Anderson, D. L., *et al. See also* Ball, M. M.
Hart, H. R., Jr. *See* Fleischer, R. L., *et al.*
Harwit, M. *See* McNutt, D. P., *et al.*
Hassan, Farkhonda. *See* Cohen, A. J.
Hassan, Fikhry. *See* Alvarez, L. W., *et al.* (6 Feb.)
Haskin, L. A., *et al.*: Rare earth elements in returned lunar samples, 487
Hatfield, G. W., and R. O. Burns: Ligand-induced maturation of threonine deaminase, 75
Hayes, J. M. *See* Abell, P. I., *et al.*
Hayes, R. L., *et al.*: Gallium-67 localization in rat and mouse tumors, 289
Haynes, C. V. *See* Meighan, C. W. *See also* Pocklington, R.
Hechter, O. *See* Douša, T., *et al.*
Heiken, G. *See* Fryxell, R., *et al.*
Heine, R.: *book review* of In the name of mental health, 1240
Heinrich, K. F. J., *et al.*: Image-formation technique for scanning electron microscopy and electron probe microanalysis, 1129
Heinrich, K. J. F. *See* Adler, I., *et al.*
Heizer, R. F. *See* Morrison, F., *et al.*
Hellerstein, H. K. *See* Bruell, J. H., *et al.*
Helmke, P. A. *See* Haskin, L. A., *et al.*
Helsley, C. E.: Magnetic properties of lunar dust and rock samples, 693
Helz, A. *See* Annell, C.
Hemingway, B. S. *See* Robie, R. A., *et al.*
Hemmingsen, E. A.: Supersaturation of gases in water: absence of cavitation on decompression from high pressures, 1493
Henderson, E. P. *See* Fredriksson, K., *et al. See also* Mason, B., *et al.*
Henderson, W. *See* Burlingame, A. L., *et al.*
Herbicides: no margin of safety (*letter*), A. W. Galston, 237
Herbosch, A. *See* Jedwab, J., *et al.*
Herbst, J. J. *See* Fortin-Magana, R., *et al.*
Herman, A. I. *See* Wickerham, L. J., *et al.*
Herpers, U. *See* Herr, W., *et al.*
Herr, K. C., and G. C. Pimentel: Evidence for solid carbon dioxide in the upper atmosphere of Mars, 47
Herr, W., *et al.*: Determination of manganese-53 by neutron activation and other miscellaneous studies on lunar dust, 747
Herschman, H. R.: Open inspection of CBW (*letter*), 1079
Herzenberg, C. L., and D. L. Riley: Mössbauer spectrometry of lunar samples, 683
Herzog, G. F. *See* Keays, R. R., *et al.*
Heslop-Harrison, Y.: Scanning electron microscopy of fresh leaves of *Pinguicula*, 172
Hess, B. *See* Herr, W., *et al.*
Hess, G. P. *See* Fresco, J. R., *et al.*
Hess, S. L., *et al.*: Blue haze and Mariner 6 pictures of Mars, 906
Hession, J. *See* Castellion, G. A., *et al.*
Heston, L. L.: The genetics of schizophrenic and schizoid disease, 249
Heterozygous beta thalassemia: balanced globin synthesis in bone marrow cells, E. Schwartz, 1513
Heuer, A. H. *See* Radcliffe, S. V., *et al.*
Heymann, D., *et al.*: Inert gases in lunar samples, 555
Heyn, A. N. J.: Dextranase activity in coleoptiles of *Avena*, 874
Hickey, J. J., and S. Hickey: *book review* of Biological effects of pesticides in mammalian systems and Chemical fallout, 1480
Hickey, S. *See* Hickey, J. J.
High crystallization temperatures indicated for igneous rocks from Tranquillity Base, B. J. Skinner, 652
High-voltage transmission electron microscopy study of lunar surface material, S. V. Radcliffe *et al.*, 638
Hill, R. E. T., and A. L. Boettcher: Water in the earth's mantle: melting curves of basalt-water and basalt-water-carbon dioxide, 980
Hills, A. G. *See* Gelber, G., *et al.*
HINDE, R. A. (Ed.), Bird vocalizations, *book review* of, 39
Hinsch, G. *See* Fox, S. W., *et al.*
Hintenberger, H., *et al.*: Rare gases, hydrogen, and nitrogen: concentrations and isotopic composition in lunar material, 543
Ho, C. *See* Prior, D. B., *et al.*
Hobson, J. A. *See* McCarley, R. W.
Hodson, H. K., and K. C. Hamner: Floral inducing extract from *Xanthium*, 384
Hodgson, G. *See* Ponnamperuma, C., *et al.*
Hodgson, G. W., *et al.*: Search for porphyrins in lunar dust, 763
Hoebel, B. G. *See* Smith, D. E., *et al.*
Hoffmann, R., and R. B. Woodward: Orbital symmetry control of chemical reactions, 825
Hohenberg, C. M. *See* Reynolds, J. H., *et al.*
Holcomb, R. W. (*Research Topics*): Controlled fusion: plasma heating with lasers, 1112; galaxies and quasars, 1601; power generation in the next 30 years, 159; radiation risk, 853
Holland, H. *See* Ponnamperuma, C., *et al.*
Holland, J. G. *See* Brown, G. M., *et al.*

Holland, J. J., and E. D. Kiehn: Influenza virus effects on cell membrane proteins, 202
Honda, M. *See* Shedlovsky, J. P., *et al.*
Hollister, L. S. *See* Hargraves, R. B., *et al.*
Hopkins, S. H., and J. D. Andrews: *Rangia cuneata* on the East Coast: thousand mile range extension, or resurgence?, 868
Horai, K., *et al.*: Thermal diffusivity and conductivity of lunar material, 730
HORI, J., Spectral properties of disordered chains and lattices, *book review* of, 364
Hormones in blood, C. H. GRAY and A. L. BACHARACH (Eds.), *book review* by C. H. Li, 1366
Hornabrook, R. W.: The Institute of Human Biology of Papua–New Guinea, 146
Horrom, B. W. *See* Viste, K. L., *et al.*
Horseshoe crab lactate dehydrogenase: tissue distribution and molecular weight, E. J. Massaro, 994
Horvath, C. G. *See* Lipsky, S. R., *et al.*
Hoseney, R. C. *See* Pomeranz, Y., *et al.*
HOTINE M., Mathematical geodesy, *book review* of, 1713
Houck, J. R. *See* McNutt, D. P., *et al.*
House form and culture, A. RAPOPORT, *book review* by R. D. Jones, 274
Housley, R. M. *See* Muir, A. H., Jr., *et al.*
How can we intervene "massively"? (*letters*), J. C. Stanley *et al.*, 123
How should we treat environment?, F. K. Hare, 352
Howe, R. C. *See* Sterman, M. B., *et al.*
Hoyt, H. *See* Crozaz, G., *et al.*
Hubbard, N. J. *See* Gast, P. W.
Huebner, J. S. *See* Stewart, D. B., *et al.*
Huey, J. M. *See* Kohman, T. P., *et al.*
Huggins, C. B., and M. R. Urist: Dentin matrix transformation: rapid induction of alkaline phosphatase and cartilage, 896
Human afflictions and chromosomal aberrations, R. TURPIN and J. LEJUENE, *book review* by C. B. Jacobson, 1118
Human auditory evoked potentials: possible brain stem components detected on the scalp, D. L. Jewett *et al.*, 1517
Human biology, J. S. WEINER and J. A. LOURIE (Eds.), *book review* by P. T. Baker, 43
Human blood and serum groups, O. PROKOP and G. UHLENBRUCK, *book review* by W. E. Nance, 1365
Hummer, B. E. *See* Plimmer, J. R., *et al.*
Huneke, J. C. *See* Albee, A. L., *et al.*
HUNTER, G., Modernizing peasant societies, *book review* of, 1604
Hunters of the northern ice, R. K. NELSON, *book review* by J. W. VanStone, 1365
Huntress, W. T., Jr. *See* Manatt, S. L., *et al.*
Huntsman, L. L. *See* Rushmer, R. F.
Hurley, P. M., and W. H. Pinson, Jr.: Rubidium-strontium relations in Tranquillity Base samples, 473
Hurwitz, R. *See* Fortin-Magana, R., *et al.*
5-Hydroxytryptamine: a cytospecific growth stimulator of cultured fibroblasts, R. J. Boucek and T. R. Alvarez, 898
Hymer, W. C., *et al.*: DNA synthesis in the anterior pituitary of the male rat: effect of castration and photoperiod, 1629
Hyperbaric oxygen: effects on metabolism and ionic movement in cerebral cortex slices, P. Joanny *et al.*, 1508

I

Ibanez, J. *See* Oró, J., *et al.*
Ihochi, H. *See* Kohman, T. P., *et al.*
ILLIES, J. *See* FITTKAU, E. J., *et al.*
Image-formation technique for scanning electron microscopy and electron probe microanalysis, K. F. J. Heinrich *et al.*, 1129
Immunoglobulin production: method for quantitatively detecting variant myeloma cells, P. Coffino *et al.*, 186
Impact metamorphism of lunar surface materials, W. Quaide *et al.*, 671
In defense of science, A. M. Weinberg, 141
In the name of mental health, R. LEIFER, *book review* by R. Heine, 1240
Indian agriculture: modern methods produce good harvests (*letter*), R. B. Davis, 126
Induction of glutamine synthetase in embryonic retina: its dependence on cell interactions, J. E. Morris and A. A. Moscona, 1736
Inelastic behavior of solids (*meeting report*), M. F. Kanninen *et al.* 1761
Inert gases in lunar samples, D. Heymann *et al.*, 555
Influenza virus effects on cell membrane proteins, J. J. Holland and E. D. Kiehn, 202
Infrared and thermal properties of lunar rock, J. A. Bastin *et al.*, 728
Inheritance of a cardiac arterial asymmetry in mice, J. H. Bruell *et al.*, 199
Inhorn, S. L., and L. F. Meisner: Irresponsibility of cyclamate ban (*letter*), 1436
Initial reports of the deep sea drilling project, M. EWING *et al.*, *book review* by T. H. Van Andel, 1712
Inorganic sulphur chemistry, G. NICKLESS (Ed.), *book review* by W. A. Pryor, 1608
Insect flight: lift and rate of change of incidence, L. Bennett, 177
Insect juvenile hormone: activity of selected terpenoid compounds, M. Schwarz *et al.*, 191
Institute of Human Biology of Papua–New Guinea, The, R. W. Hornabrook, 146
Instrumental neutron activation analyses of lunar specimens, G. G. Goleš *et al.*, 497
Insulin-stimulated glucose uptake by subcellular particles from adipose tissue cells, D. B. Martin and J. R. Carter, Jr., 873
Interaction concepts of personality, R. C. CARSON, *book review* by U. G. Foa, 858
Interference and forgetting in bird and fish, E. R. Behrend *et al.*, 389
Interferometric examination of small glassy spherules and related objects in a 5-gram lunar dust sample, S. Tolansky, 742
Intermixture and selection, P. L. Workman and T. E. Reed, 1388
Intestinal enzymes: indicators of proliferation and differentiation in the jejunum, R. Fortin-Magana *et al.*, 1627
Invention of the meteorological instruments, W. E. K. MIDDLETON, *book review* by J. G. Edinger, 166
Iron in synthetic quartz: heat and radiation induced changes, A. J. Cohen and F. Hassan, 176
Iron-titanium oxides and olivine from 10020 and 10071, S. E. Haggerty *et al.*, 613
Irresponsibility of cyclamate ban (*letter*), S. L. Inhorn and L. F. Meisner, 1436
Ishikawa, Y. *See* Nagata, T., *et al.*
Isolation and zonal fractionation of metaphase chromosomes from human diploid cells, E. L. Schneider and N. P. Salzman, 1141
Isotopic abundances of actinide elements in lunar material, P. R. Fields *et al.*, 499
Isotopic analysis of rare gases from stepwise heating of lunar fines and rocks, J. H. Reynolds *et al.*, 545
Isotopic composition of rare gases in lunar samples, R. O. Pepin *et al.*, 550
Ito, J. *See* Frondel, C., *et al.*
Ito, Y., and R. L. Bowman: Countercurrent chromatography: liquid-liquid partition chromatography without solid support, 281
Iverson, D. *See* Alvarez, L. W., *et al.* (6 Feb.)
Ivie, G. W., and J. E. Casida: Enhancement of photoalteration of cyclodiene insecticide chemical residues by rotenone, 1620

J

Jackson, E. D. *See* Chao, E. C. T., *et al.*
Jacobson, C. B.: *book review* of Human afflictions and chromosomal aberrations, 1118
Jacobson, J. J., and L. B. Borst: Egypt to Canterbury (*letters*), 333
Jaffe, R. I. *See* Kanninen, M. F., *et al.*
Jakobsen, R. J. *See* Page, T. F., Jr., *et al.*
James, O. B. *See* Chao, E. C. T., *et al*
Janssen, G. E.: Greatest of these is charity (*letter*), 933
Jarosewich, E. *See* Mason, B., *et al.*
Jarrett, R. M., and L. N. Edmunds, Jr.: Persisting circadian rhythm of cell division in a photosynthetic mutant of *Euglena*, 1730
Jedwab, J., *et al.*: Search for magnetite in lunar rocks and fines, 618
Jeffery, P. M. *See* Keays, R. R., *et al.*
Jeon, K. W., *et al.*: Reassembly of living cells from dissociated components, 1626
Jérome, D. Y. *See* Goleš, G. G., *et al.*
Jewett, D. L., *et al.*: Human auditory evoked potentials: possible brain stem components detected on the scalp, 1517
Joanny, P., *et al.*: Hyperbaric oxygen: effects on metabolism and ionic movement in cerebral cortex slices, 1508
JOFFE, J. M., Prenatal determinants of behaviour, *book review* of, 857
Joffe, M. *See* Cheek, F. E., *et al.*
Joffe, M. H.: *book review* of Use of nonhuman primates in drug evaluation, 859
Johansen, G. *See* Potter, V. R., *et al.*
John Wilkins, 1614–1672, B. J. SHAPIRO, *book review* by R. Kargon, 167
Johnson, A. A. *See* Fesolowich, A., *et al.*
Johnson, D. R. *See* Becker, K.
Johnson, R. *See* Ponnamperuma, C., *et al.*
Johnson, R. D., and C. C. Davis: Pyrolysis-hydrogen flame ionization detection of organic carbon in a lunar sample, 759
Johnson, R. H.: Active submarine volcanism in the Austral Islands, 977
Jones, G. E., and R. K. Mortimer: L-Asparaginase-deficient mutants of yeast, 181
Jones, R. D.: *book review* of House form and culture, 274
Jones, R. L. *See* Adams, J. B.
Jones, R. R.: A name to fit the crime (*letter*), 820
Jordan, B. *See* Forget, B. G.
Jovanovic, S. *See* Reed, G. W., Jr., *et al.*
Jukes, T. H.: New ringmaster—same circus? (*letter*), 1199; Perils of disease (*letter*), 126

K

Kaiser, W. A. *See* Reynolds, J. H., *et al.*
Kallfelz, F. A. *See* Fresco, J. R., *et al.*
Kalter, S. S.: Nonhuman primates (*letter*), 1564
Kalven, H., Jr.: *book review* of The Oppenheimer case, 1114
Kamb, B., *et al.*: Structure of water, 1520
Kanamori, H. *See* Horai, K., *et al.*
Kanamori, H., *et al.*: Elastic wave velocities of lunar samples at high pressures and their geophysical implications, 726
Kandel, E. R. *See* Castellucci, V., *et al. See also* Kupfermann, I., *et al. See also* Pinsker, H., *et al.*
Kanninen, M. F., *et al.*: Inelastic behavior of solids (*meeting report*), 1761
Kaplan, I. *See* Ponnamperuma, C., *et al.*
Kaplan, I. R. *See* Smith, J. W.
Kaplan, I. R., and J. W. Smith: Concentration and isotopic composition of carbon and sulfur in Apollo 11 lunar samples, 541
Kapoor, H. M. *See* Teichert, C., *et al.*
Kardos, J. *See* Crozaz, G., *et al.*
Kargon, R.: *book review* of John Wilkins, 1614–1672, 167
KARLSTROM, T. N. V., and G. E. BALL (Eds.), Kodiak Island refugium, *book review* of, 1242
Karp, E., and R. B. Simon: Denver earthquakes, 1518
Karp, R. (*News and Comment*): education and funds for innovation, 1709
Kashuba, A. T. *See* Morrison, G. H., *et al.*
Kasper, J. S. *See* Fleischer, R. L., *et al.*
Kasugamycin resistance: 30*S* ribosomal mutation with an unusual location on the *Escherichia coli* chromosome, P. F. Sparling, 56
Katchalsky, A. *See* Sussman, M. V.
Kaula, W. M. *See* Alley, C. O., *et al.* (30 Jan.)
Kaushal, S. *See* Gopalan, K., *et al.*
Kaye, J. H. *See* Perkins, R. W., *et al.*
Keays, R. R., *et al.*: Trace elements and radioactivity in lunar rocks: implications for meteorite infall, solar-wind flux, and formation conditions of moon, 490
Keil, K. *See* Ponnamperuma, C., *et al.*
Keil, K., *et al.*: Mineral chemistry of lunar samples, 597
Kelmers, A. D., and M. P. Stulberg: Purified transfer RNA's (*letter*), 237; *erratum*, 852
Kennedy, S. J. *See* Debus, A. G., *et al.*
KERKER, M., The scattering of light and other electromagnetic radiation, *book review* of, 861
Kestenbaum, R. S., *et al.*: Behavioral measurement of neural poststimulation excitability cycle: pain cells in the brain of the rat, 393
Kharkar, D. P. *See* Turekian, K. K.
Khera, K. S. *See* Stoltz, D. R., *et al.*
Kieffer, H. H. *See* Pilcher, C. B., *et al.*
Kiehn, E. D. *See* Holland, J. J.
Kim, U.: Metastasizing mammary carcinomas in rats: induction and study of their immunogenicity, 72
Kinetics of folding of staphylococcal nuclease, A. N. Schechter *et al.*, 886
King, E. A., Jr., *et al.*: Mineralogy and petrology of coarse particulate material from lunar surface at Tranquillity Base, 650
King, M. B. *See* Smith, D. E., *et al.*
Kinloch, B. B., Jr., *et al.*: White pine blister rust: simply inherited resistance in sugar pine, 193
Kinney, J. A. S. *See* Luria, S. M.
Kinoshita, H. *See* Nagata, T., *et al.*
Kint, J. A.: Fabry's disease: alpha-galactosidase deficiency, 1268
Kirk, J. *See* Staney, J. C., *et al.*
Kirsten, T., *et al.*: Rare gases in lunar samples: study of distribution and variations by a microprobe technique, 571
Klebanoff, S. J. *See* Belding, M. E., *et al.*

Klein, C., Jr. *See* Frondel, C., *et al.*
Klein, D. C., *et al.*: Pineal gland: dibutyryl cyclic adenosine monophosphate stimulation of labeled melatonin production, 1738
Kline, D. *See* Weeks, R. A., *et al.*
KLINGE, H. *See* FITTKAU, E. J., *et al.*
Klingebiel, U. I. *See* Plimmer, J. R., *et al.*
Klostermeyer, E. C. *See* Gerber, H. S.
Koch, M. A. *See* Eggers, H. J., *et al.*
Koch, R. H.: *book review* of Mass loss from stars, 971
Kodiak Island refugium, The, T. N. V. KARLSTROM and G. E. BALL (Eds.), *book review* by J. A. Downes, 1242
Koeppe, D. E., and R. J. Miller: Lead effects on corn mitochondrial respiration, 1376
Kohman, T. P., *et al.*: Lead and thallium isotopes in Mare Tranquillitatis surface material, 481
Kollman, P. A. *See* Allen, L. C.
Kolopus, J. L. *See* Weeks, R. A., *et al.*
Kono, M. *See* Nagata, T., *et al.*
Koo, T. S. Y. *See* Good, R., *et al.*
Koster, F., and D. D. McGregor: Rat thoracic duct lymphocytes: types that participate in inflammation, 1137
Krähenbühl, U. *See* Eberhardt, P., *et al.*
Kraicer, J. *See* Milligan, J. V.
Kramer, S. B.: Space ride on Saturn V (*letter*), 124
Kratkii ocherk teorii evolyutsii (An outline of evolutionary concepts), N. V. TIMOFEEFF-RESSOVSKY *et al.*, *book review* by E. C. Olson, 273
Krauskopf, K. *See* Ponnamperuma, C., *et al.*
KRAYBILL, H. F. (Ed.), Biological effects of pesticides in mammalian systems, *book review* of, 1480
Kretchmer, N. *See* Fortin-Magana, R., *et al.*
Krinsley, D. *See* Cloud, P., *et al.*
Kueppers, F. *See* Lieberman, J.
Kuh, E. *See* Alker, H. R., Jr., *et al.*
Kummel, B. *See* Teichert, C., *et al.*
Kupfermann, I. *See* Castellucci, V., *et al. See also* Pinsker, H., *et al.*
Kupfermann, I., *et al.*: Neuronal correlates of habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, 1743
Kurten, B.: *book review* of Prehistoric animals and their hunters, 1241
Kurtin, B. C. *See* Kurtin, S. L., *et al.*
Kurtin, S. L., *et al.*: "Polywater": a hydrosol?, 1720
Kurtzman, C. P. *See* Wickerham, L. J., *et al.*
Kushiro, I., *et al.*: Crystallization of some lunar mafic magmas and generation of rhyolitic liquid, 610; *erratum*, 1759
Kvenvolden, K. A. *See* Hodgson, G. W., *et al. See also* Ponnamperuma, C., *et al.*

L

Lactate dehydrogenase isozymes: kinetic properties at high enzyme concentrations, T. Wuntch *et al.*, 63
LaHaye, P. A. *See* Bernstein, L., *et al.*
Lal, D. *See* Arrhenius, G., *et al. See also* Shedlovsky, J. P., *et al.*
Lamb, W. *See* Geake, J. E., *et al.*
Lambert, R. J. *See* Harlan, J. R., *et al.*
Lamontagne, R. A. *See* Swinnerton, J. W., *et al.*
Larochelle, A., and E. J. Schwarz: Magnetic properties of lunar sample 10048-22, 700
Larson, E. E. *See* Strangway, D. W., *et al.*
Larson, R. R. *See* Rose, H. J., Jr., *et al.*
Laser ranging retro-reflector: continuing measurements and expected results, C. O. Alley *et al.*, 458
Laskov, R. *See* Coffino, P., *et al.*
Late DNA replication in male mouse meiotic chromosomes, N. Odartchenko and M. Pavillard, 1133
Lateral hypothalamic control of killing: evidence for a cholinoceptive mechanism, D. E. Smith *et al.*, 900
Latham, G. V., *et al.*: Passive seismic experiment, 455
Latin America: bedeviled science (*letter*), R. L. Cohen, 1669
Lattman, L. H. *See* Dupree, L., *et al.*
Laul, J. C. *See* Keays, R. R., *et al.*
Leachman, R. B.: *book review* of New uses for low-energy accelerators, 42
Lead and thallium isotopes in Mare Tranquillitatis surface material, T. P. Kohman *et al.*, 481
Lead effects on corn mitochondrial respiration, D. E. Koeppe and R. J. Miller, 1376
Leaf hydraulic system: rapid epidermal and stomatal responses to changes in water supply, K. Raschke, 189
Leake, C. D.: Purkyne symposium (*meeting report*), 210
Lebofsky, L. A. *See* Pilcher, C. B., *et al.*
Lee, D. *See* Ayala, S. C.
Lee, R. F., *et al.*: Wax esters in marine copepods, 1510
Lee-Hu, C. *See* Gopalan, K., *et al.*
LEIFER, R., In the name of mental health, *book review* of, 1240
Leighton, J. *See* Slifkin, M., *et al.*
Leininger, J. T. *See* Bruell, J. H., *et al.*
LEJUENE, J. *See* TURPIN, R.
Leopold, R. A. *See* Marks, E. P.
Leovy, C. B. *See* Hess, S. L., *et al.*
Lepidoptera in Cretaceous amber, M. R. MacKay, 379
Lepow, M. L. *See* Fraumeni, J. F., Jr., *et al.*
Lester, R. *See* Troxler, R. F., *et al.*
Letter to Argentina (*letter*), N. Geschwind, 1321
Leung, I. S. *See* Carter, N. L., *et al.*
Levin, H. *See* Stanley, J. C., *et al.*
Levine, M. A., and H. N. Claman: Bone marrow and spleen: dissociation of immunologic properties by cortisone, 1515
LEVINS, R., Evolution in changing environments, *book review* of, 1478
Levitan, I. B., and T. E. Webb: Posttranscriptional control in the steroid-mediated induction of hepatic tyrosine transaminase, 283
Levy, H. A. *See* Kamb, B., *et al.*
Levy, H. B. *See* Gelboin, H. V.
Levy, R. L. *See* Oró, J., *et al.*
Lewis, C. F. *See* Moore, C. B., *et al.*
Lewis, R. S. *See* Reynolds, J. H., *et al.*
Lewontin, R. C., and J. G. Scandalios: Allelic form of enzymes, 1519
Ley, H. L. *See* Price, J. M., *et al.*
Li, C. H.: *book review* of Hormones in blood, 1366
Liang, S. S. *See* Arrhenius, G., *et al.*
Licari, G. R. *See* Cloud, P., *et al.*
LICHTENBERG, A. J., Phase-space dynamics of particles, *book review* of, 1609
Lichter, B. D.: *book review* of Liquid semiconductors, 972
Lieberman, J., and F. Kueppers: α_1-antitrypsin deficiency, 1015
Lifshin, E. *See* Fleischer, R. L., *et al.*
Ligand-induced maturation of threonine deaminase, G. W. Hatfield and R. O. Burns, 75
Ligon, D. T. *See* Rose, H. J., Jr., *et al.*
Lilley, A. E. *See* Ball, J. A., *et al.*
Lilley, E. M. *See* Stephens, D. R.
Lin, S. *See* Ayala, G. F., *et al.*
Lindsay, J. R. *See* Rose, H. J., Jr., *et al.*
Lindstrom, D. J. *See* Goles, G. G., *et al.*
Lindstrom, R. M. *See* Shedlovsky, J. P., *et al.*
Line and grade in the extinct *medius* species group of *Sigmodon*, R. A. Martin, 1504
Linnenbom, V. J. *See* Swinnerton, J. W., *et al.*
Linnett, J. W.: Structure of polywater, 1719
Lippincott, E. R. *See* Page, T. F., Jr., *et al.*
Lipsky, S. R., *et al.*: Analysis of lunar material for organic compounds, 778
Liquid semiconductors, V. M. GLAZOV *et al.*, *book review* by B. D. Lichter, 972
Littauer, U. Z. *See* Daniel, V., *et al.*
Lockhart, L. H. *See* Bowman, B. H., *et al.*
Logsdon, C. E.: Alaska: a climate for cabbages (*letter*), 1316
Long, J. V. P. *See* Agrell, S. O., *et al.*
Longhurst, A. R., and D. K. Evans: Perils of disease—II (*letters*), 1561
Long-term efforts to clean the environment (*editorial*), P. H. Abelson, 1081
Loosli, H.-H. *See* Shedlovsky, J. P., *et al.*
Lorch, I. J. *See* Jeon, K. W., *et al.*
Lorenz, E. N.: *book review* of Atmospheric circulation systems, 972
Lorenzen, C. J. *See* Clarke, G. L., *et al.*
LOURIE, J. A. *See* WEINER, J. S.
Loveridge, W. D. *See* Wanless, R. K., *et al.*
Lovering, J. F. *See* Ware, N. G.
Lowe, C. U., *et al.*: Monosodium glutamate: specific brain lesion questioned, 1016
Lowengrub, M. *See* Azumaya, G., *et al.*
Lowman, P. D. *See* Adler, I., *et al.*
Lubaroff, D. M. *See* Sivers, W. K., *et al.*
Lubran, M. *See* Smith, D. F., *et al.*
Ludvigson, H. W. *See* Morrison, R. R.
Lugmair, G. W. *See* Marti, K., *et al.*
Luistro, A. O. *See* Bischoff, J. L., *et al.*
Luminescence and reflectance of Tranquillity samples: effects of irradiation and vitrification, D. B. Nash *et al.*, 721
Luminescence and thermoluminescence induced by bombardment with protons of 159 million electron volts, J. A. Edgington and I. M. Blair, 715
Luminescence, electron paramagnetic resonance, and optical properties of lunar material, J. E. Geake *et al.*, 717
Luminescence of Apollo 11 lunar samples, N. N. Greenman and H. G. Gross, 720
Lunar anorthosites, J. A. Wood *et al.*, 602
Lunar clinopyroxenes: chemical composition, structural state, and texture, M. Ross *et al.*, 628
Lunar glasses and micro-breccias: properties and origin, K. Fredriksson *et al.*, 664
Lunar igneous intrusions, F. El-Baz, 49
Lunar organic compounds: search and characterization, A. L. Burlingame *et al.*, 751
Lunar regolith at Tranquillity Base, E. M. Shoemaker *et al.*, 452
Lunar rock compositions and some interpretations, A. E. J. Engel and C. G. Engel, 527
Lunar Sample Analysis Planning Team: Summary of Apollo 11 Lunar Science Conference, 449
Lunar Sample Preliminary Examination Team: Preliminary examination of lunar samples from Apollo 12, 1325
Lunar soil: size distribution and mineralogical constituents, M. B. Duke *et al.*, 648
Lunar surface rocks and fines: chemical composition, L. H. Ahrens and R. V. Danchin, 87
Lunar troilite: crystallography, H. T. Evans, Jr., 621
LUNDQVIST, S. *See* BURSTEIN, E.
Luria, S. M., and J. A. S. Kinney: Underwater vision, 1454
Lyman, W. J. *See* Stoenner, R. W., *et al.*
Lymphomas in mice: failure of induction after a graft-versus-host reaction, G. B. Rossi and C. Friend, 1383
Lynch, G. *See* Alvarez, L. W., *et al.* (6 Feb.)
Lyon, D. N.: *book review* of Solenoid magnet design, 1244

M

MacDonald, G. J. F. *See* Alley, C. O., *et al.* (30 Jan.)
MacDonald, J. R.: Doppler shift measurements of nuclear lifetimes, 1339
MacDonald, L. R. *See* Sterman, M. B., *et al.*
MacDonald, W. M.: *book review* of Shell-model approach to nuclear reactions, 860
Macdougall, D. *See* Arrhenius, G., *et al.*
MacGregor, I. D. *See* Carter, J. L.
MacKay, M. R.: Lepidoptera in Cretaceous amber, 379
MacKenzie, W. S. *See* Bailey, J. C., *et al.*
Macura, M.: *book review* of Family-planning programs and Fertility and family planning, 1606
Maffei, L., and F. W. Campbell: Neurophysiological localization of the vertical and horizontal visual coordinates in man, 386
Magnetic particles extracted from manganese nodules: suggested origin from stony and iron meteorites, R. B. Finkelman, 982
Magnetic properties of lunar dust and rock samples, C. E. Helsley, 693
Magnetic properties of lunar samples, S. K. Runcorn *et al.*, 697
Magnetic properties of lunar samples, D. W. Strangway *et al.*, 691
Magnetic properties of lunar sample, 10048-22, A. Larochelle and E. J. Schwarz, 700
Magnetic properties of the lunar crystalline rock and fines, T. Nagata *et al.*, 703
Magnetic resonance properties of some lunar material, R. A. Weeks *et al.*, 704
Magnetic resonance studies of lunar samples, S. L. Manatt *et al.*, 709
Magnetic studies of lunar samples, R. R. Doell *et al.*, 695
Magnetometer evidence of a structure within the La Venta pyramid, F. Morrison *et al.*, 1488
MAHAUX, C., and H. A. WEIDERMÜLLER, Shell-model approach to nuclear reactions, *book review* of, 860
Major and trace elements and cosmic-ray produced radioisotopes in lunar samples, H. Wänke *et al.*, 523
Maletskos, C. J. *See* Tang, C.-W.
Malins, D. C., and A. Barone: Glyceryl ether metabolism: regulation of buoyancy in dogfish *Squalus acanthias*, 79
Man's first route to America (*letters*), R. Pocklington and C. V. Haynes, 1670
Manatt, S. L., *et al.*: Magnetic resonance studies of lunar samples, 709
Manheim, F. T., *et al.*: Suspended matter in surface waters of the Atlantic continental margin from Cape Cod to the Florida Keys, 371

Mapper, D. *See* Smales, A. A., *et al.*
Maradudin, A. A.: *book review* of Spectral properties of disordered chains and lattices, 364
Marcus, A., *et al.*: Aurintricarboxylic acid and initiation factors of wheat embryo, 1735
Margolis, S. V. *See* Cloud, P., *et al.*
Marine phytoplankton vary in their response to chlorinated hydrocarbons, D. W. Menzel *et al.*, 1724
Mariner 6: origin of Mars ionized carbon dioxide ultraviolet spectrum, A. Dalgarno *et al.*, 1490
Marks, E. P., and R. A. Leopold; Cockroach leg regeneration: effects of ecdysterone in vitro, 61
Marliss, E. *See* Felig, P., *et al.*
Marmor, M. F., and A. L. F. Gorman: Membrane potential as the sum of ionic and metabolic components, 65
MARIOS, M. (Ed.), Theoretical physics and biology, *book review* of, 272
Marti, K., *et al.*: Solar wind gases, cosmic ray spallation products, and the irradiation history, 548
Martian mass and earth-moon mass ratio from coherent S-band tracking of Mariners 6 and 7, J. D. Anderson *et al.*, 277
Martin, D. B., and J. R. Carter, Jr.: Insulin-stimulated glucose uptake by subcellular particles from adipose tissue cells, 873
Martin, M. R. *See* Goleš, G. G., *et al.*
Martin, R. A.: Line and grade in the extinct *medius* species group of *Sigmodon*, 1504
Marvin, D. A. *See* Wilkins, M. H. F., *et al.*
Marvin, U. B. *See* Wood, J. A., *et al.*
Masani, P. *See* Azumaya, G., *et al.*
Mason, B., *et al.*: Mineralogy and petrography of lunar samples, 656
Mass loss from stars, M. HACK (Ed.), *book review* by R. H. Koch, 971
Massaro, E. J.: Horseshoe crab lactate dehydrogenase: tissue distribution and molecular weight, 994
Mastro, A. *See* Hymer, W. C., *et al.*
Mass motions in solar flares and related phenomena, Y. OHMAN (Ed.), *book review* by G. W. Simon, 1714B
Mathematical geodesy, M. HOTINE, *book review* by H. Moritz, 1713
Matthews, J. R. *See* Matthews, R. W.
Matthews, R. W., and J. R. Matthews: Adaptive aspects of insular evolution (*meeting report*), 909
Mathewson, J. H.: *book review* of Porphyrins and related compounds, 1117
Maurette, M. *See* Crozaz, G., *et al.*
Maxillary mycangium in the mountain pine beetle, H. S. Whitney and S. H. Farris, 54
Maxwell, J. A., *et al.*: Chemical composition of lunar material, 530
Maxwell, J. R. *See* Abell, P. I., *et al.*
Mayeda, T. K. *See* Onuma, N., *et al.*
MAYR, E., Principles of systematic zoology, *book review* of, 1477
McArthur, N.: The demography of primitive populations, 1097
McBirney, A. R. *See* Murase, T.
McCallum, I. S. *See* Weill, D. F., *et al.*
McCarley, R. W., and J. A. Hobson: Cortical unit activity in desynchronized sleep, 901
McClain, E. P., *et al.*: Sunglint patterns in satellite pictures, 1757
McCombs, M. L. *See* Bowman, B. H., *et al.*
McConnell, J. D. C. *See* Agrell, S. O., *et al.*
McElroy, W. D. (*editorial*): A crisis of crises, 9
MC GINNIES, W. G., *et al.* (Eds.), Deserts of the world, *book review* of, 968
MC GINNIES, W. G., and B. J. GOLDMAN (Eds.), Arid lands in perspective, *book review* of, 968
McGinnis, R. C. *See* Dubuc, J. P.
McGowan, J. W.: Some three-body atomic systems, 1083
McGregor, D. D. *See* Koster, F.
McInturff, R. M. *See* Finger, F. G. *See also* Shurcliff, W. A., *et al.*
McKay, D. S. *See* Richardson, K. A., *et al.*
McKay, D. S., *et al.*: Morphology and related chemistry of small lunar particles from Tranquillity Base, 654
McKay, G. A. *See* Weill, D. F., *et al.*
McKay, S. M. *See* Goleš, G. G., *et al.*
MC KERNS, K. W. (Ed.), The gonads, *book review* of, 43
McLeod, J. *See* Potter, R. V., *et al.*
McMillan, R. B.: Early canid burial from the western Ozark highland, 1246
McMurray, W. J. *See* Lipsky, S. R., *et al.*
McNaughton, S. J., and L. L. Wolf: Dominance and the niche in ecological systems, 131
McNay, J. L., and P. G. Dayton: Placental transfer of a substituted pteridine from fetus to mother, 988
McNeill, W. H.: *book review* of The grand titration, 367
McNutt, D. P., *et al.*: Far-infrared observations of the night sky: different data, 1277
McReynolds, J. *See* Oró, J., *et al.*
Mead., C. A. *See* Kurtin, S. L., *et al.*
Meade, R. H. *See* Manheim, F. T., *et al.*
Mechanics in sixteenth-century Italy, S. DRAKE and I. E. DRABKIN, *book review* by E. Rosen, 169
Mechanochemical turbine: a new power cycle, M. V. Sussman and A. Katchalsky, 45
Medical thermography, S. F. C. H. VAN VOSS and P. THOMAS (Eds.), *book review* by J. D. Haberman, 1714A
Meetings: Adaptive aspects of insular evolution, 909; Aspen conference on quantum crystals, 912; Bioelectrical impedance 1761; Calorimetry, 1526; Control of form in cells, 307; Cross-reactions of oncogenic viruses, 309; Enzyme regulation in mammalian tissues, 1018; Fish stocks: biochemical and serological identification, 1760; Gene regulation in mammalian cells, 1524; Gordon Research Conferences, 1390; Inelastic behavior of solids, 1761; North American paleontological convention, 398; Physical and chemical aspects of ionization and excitation processes, 1522; Purkyne symposium, 210; Radiation biology of the fetal and juvenile mammal, 1640; Tundra biome program, 1278
Meighan, C. W., and C. V. Haynes: The Borax Lake site revisited, 1213
Meinschein, W. G., *et al.*: Search for alkanes of 15 to 30 carbon atom length, 753
Meisner, L. F. *See* Inhorn, S. L.
Melson, W. G. *See* Fredriksson, K., *et al. See also* Mason, B., *et al.*
Melton, M. L. *See* Sheffield, H. G.
Membrane potential as the sum of ionic and metabolic components, M. F. Marmor and A. L. F. Gorman, 65
Menaker, M. *See* Underwood, H.
MENNINGER, K., Number words and number symbols, *book review* of, 366
Menzel, D. W., *et al.*: Marine phytoplankton vary in their response to chlorinated hydrocarbons, 1724
Merchant, B., and Z. Brahmi: Duplicate plating of immune cell products: analysis of globulin class secretion by single cells, 69
Merek, E. L. *See* Oyama, V. I., *et al.*
Merimee, T. J. *See* Fineberg, S. E.
Merkow, L. P. *See* Slifkin, M., *et al.*
Merrill, E. G. *See* Dawson, G. D., *et al.*
Metabolic dependence of fast axoplasmic transport in nerve, S. Ochs and N. Ranish, 878
Metastasizing mammary carcinomas in rats: induction and study of their immunogenicity, U. Kim, 72
Meteorology and the supersonic transport, F. G. Finger and R. M. McInturff, 16
Metta, D. N. *See* Fields, P. R., *et al.*
Microarchitecture and deposition of gastropod nacre, S. W. Wise, Jr., 1486
Micromorphology and surface characteristics of lunar dust and breccia, P. Cloud *et al.*, 776
Micropaleontological studies of lunar samples, J. W. Schopf, 779
Micropaleontological study of lunar material, E. S. Barghoorn *et al.*, 775
MIDDLETON, W. E. K., Invention of the meteorological instruments, *book review* of, 166
Milgram, S.: The experience of living in cities, 1461
Miligy, Z. *See* Alvarez, L. W., *et al.* (6 Feb.)
Miller, E. C. *See* DeBaun, J. R., *et al.*
Miller, G. A. *See* Alker, H. R., Jr., *et al.*
Miller, G. B. *See* Morrison, G. H., *et al.*
Miller, J. A. *See* DeBaun, J. R., *et al.*
MILLER, M. W., and G. G. BERG (Eds.), Chemical fallout, *book review* of, 1480
Miller, N. L. *See* Frenkel, J. K., *et al.*
Miller, R. J. *See* Koeppe, D. E.
Miller, S. J. *See* Fresco, J. R., *et al.*
Milligan, J. V., and J. Kraicer: Adenhypophysial transmembrane potentials: polarity reversal by elevated external potassium ion concentration, 182
Milton, D. J.: Mission to Martian satellites, 1758
Mina Rees, president-elect 1970 (*Association Affairs*), F. J. Weyl, 1149
Mineral chemistry of lunar samples, K. Keil *et al.*, 597
Mineralogical and petrological investigations of lunar samples, J. C. Bailey *et al.*, 592
Mineralogy and composition of lunar fines and selected rocks, C. Frondel *et al.*, 681
Mineralogy and deformation in some lunar samples, J. A. V. Douglas *et al.*, 594
Mineralogy and petrography of lunar samples, B. Mason *et al.*, 656
Mineralogy and petrology of coarse particulate material from lunar surface at Tranquillity Base, E. A. King, Jr., *et al.*, 650
Mineralogy and petrology of some lunar samples, S. O. Agrell *et al.*, 583
Mineralogy, petrology, and surface features of lunar samples 10062,35, 10067,9, 10069,30, and 10085,16, J. L. Carter and I. D. MacGregor, 661
Minkin, J. A. *See* Chao, E. C. T., *et al.*
Minty, G. *See* Azumaya, G., *et al.*
Mintz, S. W.: *book review* of Modernization among peasants, Modernizing peasant societies, and Peasants in the modern world, 1604
Mishra, S. D., and B. K. Gaur: Senescence in detached betel leaves: role of the petiole, 387
Mission to an asteroid, H. Alfvén and G. Arrhenius, 139
Mission to Martian satellites, D. J. Milton, 1758
Mistaken identity (*letter*), R. W. Fuller, 1562
Mitchell, J. K. *See* Costes, N. C., *et al.*
Mites and commercial extracts of house dust, G. W. Wharton, 1382
Mixed lymphocyte reactions and tissue transplantation tolerance, W. K. Silvers *et al.*, 1264
Mixed Permian-Triassic fauna, Guryul Ravine, Kashmir, C. Teichert *et al.*, 174
Miyajima, M. *See* Crozaz, G., *et al.*
Modernization among peasants, E. M. ROGERS and L. SVENNING, *book review* by S. W. Mintz, 1604
Modernizing peasant societies, G. HUNTER, *book review* by S. W. Mintz, 1604
Modzeleski, V. E. *See* Nagy, B., *et al.*
Molecular approach to breadmaking, Y. Pomeranz *et al.*, 944
Molecular photobiology, K. C. SMITH and P. C. HANAWALT, *book review* by R. O. Rahn, 168
Molnar, C. E. *See* Pfeiffer, R. S.
Monoplacophora in the south Atlantic Ocean, J. Rosewater, 1485
Monosodium glutamate: specific brain lesion questioned, C. U. Lowe *et al.*, 1016
MONTAGNA, W., and R. L. DOBSON (Eds.), Hair growth, *book review* of, 1118
MONTGOMERY, D. B., Solenoid magnet design, *book review* of, 1244
Moody, E. A.: *book review* of Nicole Oresme and the medieval geometry of qualities and motions, 973
MOON, A. P. *See* SADUN, E. H.
Moon illusion explained on the basis of relative size, F. Restle, 1092
Moon issue, The (*editorial*), P. H. Abelson, 447
Moore, C. B., *et al.*: Total carbon and nitrogen abundances in lunar samples, 495
Moore, P. B. *See* Anderson, A. T., Jr., *et al.*
Moore, R. E. M.: Mosaic ruler, 1385
Moorhouse, D. E. *See* Tatchell, R. J.
Moorman, M. *See* Cloud, P., *et al.*
Moreland, P. E. *See* Fields, P. R., *et al.*
Morgan, J. W. *See* Ehmann, W. D.
Moritz, H.: *book review* of Mathematical geodesy, 1713
Morkin, E.: Postnatal muscle fiber assembly: localization of newly synthesized myofibrillar proteins, 1499
Morphology and related chemistry of small lunar particles from Tranquillity Base, D. S. McKay *et al.*, 654
Morris, J. E., and A. A. Moscona: Induction of glutamine synthetase in embryonic retina: its dependence on cell interactions, 1736
Morrison, D. A. *See* McKay, D. S., *et al.*
Morrison, F., *et al.*: Magnetometer evidence of a structure within the La Venta pyramid, 1488
Morrison, G. H., *et al.*: Multielement analysis of lunar soil and rocks, 505
Morrison, R. R., and H. W. Ludvigson: Discrimination by rats of conspecific odors of reward and nonreward, 904
Mortality and fertility: causal link (*letter*), W. B. Greenough, III, 237
Mortimer, R. K. *See* Jones, G. E.
Mosaic ruler, R. E. M. Moore, 1385
Moscona, A. A. *See* Morris, J. E.
Mössbauer effect and high-voltage electron microscopy of pyroxenes in type B samples, H. Fernández-Morán *et al.*, 686

Mössbauer spectrometry of lunar samples, C. L. Herzenberg and D. L. Riley, 683
Mössbauer spectroscopy of moon samples, A. H. Muir, Jr., *et al.*, 688
MOTHES, K., *et al.* (Eds.), Transport and distribution of matter in cells of higher plants, *book review* of, 859
Mourant, A. E.: Fish stocks: biochemical and serological identification (*meeting report*), 1760
Moussa, A. H. *See* Alvarez, L. W., *et al.* (6 Feb.)
Mueller, G. *See* Fox, S. W., *et al.*
Mueller, M. (*News and Comment*): "book bugging": a possible answer to library thefts?, 361
Muir, A. H., Jr., *et al.*: Mössbauer spectroscopy of moon samples, 688
Muir, I. D. *See* Agrell, S. O., *et al.*
Mukherjee, K. *See* Fesolowich, A., *et al.*
Mukherjee, N. R. *See* Grossman, J. J., *et al.*
Mulholland, J. D. *See* Alley, C. O., *et al.* (30 Jan.)
Mullendore, J. *See* Alley, C. O., *et al.* (23 Jan.)
MÜLLER, E. *See* MOTHES, K., *et al.*
MÜLLER, G., and G. M. FRIEDMAN (Eds.), Recent developments in carbonate sedimentology in Central Europe, *book review* of, 42
Müller, W. F. *See* von Engelhardt, W., *et al.*
Multielement analysis of lunar soil and rocks, G. H. Morrison *et al.*, 505
Murase, T., and A. R. McBirney: Viscosity of lunar lavas, 1491
Murphy, M. E. *See* Nagy, B., *et al.*
Murphy, M. R., and G. E. Schneider: Olfactory bulb removal eliminates mating behavior in the male golden hamster, 302
Murphy, R. C., *et al.*: Search for organic mate l in lunar fines by mass spectrometry, 75?
Murthy, V. R., *et al.*: Rubidium-strontium age and elemental and isotopic abundances of some trace elements in lunar samples, 476

N

Naessens, G. *See* Jedwab, J., *et al.*
Nafissi-V., M. M. *See* Murphy, R. C., *et al.*
Nagata, T., *et al.*: Magnetic properties of the lunar crystalline rock and fines, 703
Nagy, B., *et al.*: Organic compounds in lunar samples: pyrolysis products, hydrocarbons, amino acids, 770
Naik, S. M. *See* Harlan, J. R., *et al.*
Nakamura, Yasuo. *See* Kushiro, I., *et al.*
Nakamura, Yosio. *See* Latham, G. V., *et al.*
Name to fit the crime, A (*letter*), R. R. Jones, 820
Nance, W. E.: *book review* of Genetic markers in human blood and Human blood and serum groups, 1365
Napier, J.: *book review* of The chimpanzee, 1714
Narten, A. H. *See* Kamb, B., *et al.*
NAS collaboration with SSRC (*letter*), H. Brooks, 6
Nash, D. B., *et al.*: Luminescence and reflectance of Tranquillity samples: effects of irradiation and vitrification, 721
Need for basic research, The (*editorial*), V. F. Weisskopf, 935
NEEDHAM, J., The grand titration, *book review* of, 367
Nelen, J. *See* Fredriksson, K., *et al.*
NELLES, A. *See* MOTHES, K., *et al.*
Nelson, B. *See* Hayes, R. L., *et al.*
Nelson, Bryce (*News and Comment*): HEW blacklists scrapped in new security procedures, 154
Nelson, E., and M. Rennels: Neuromuscular contacts in intracranial arteries of the cat, 301; *erratum*, 1476
NELSON, R. K., Hunters of the northern ice, *book review* of, 1365
NEUMANN, D. *See* MOTHES, K., *et al.*
Neurobiology of invertebrates, J. SALANKI (Ed.), *book review* by C. A. G. Wiersma, 1714
Neuroendocrine control of ecdysis in silkmoths, J. W. Truman and L. M. Riddiford, 1624
Neuroglia: biophysical properties and physiologic function, M. C. Trachtenberg and D. A. Pollen, 1248
Neuroglia: gliosis and focal epilepsy, D. A. Pollen and M. C. Trachtenberg, 1252
Neuromuscular contacts in intracranial arteries of the cat, E. Nelson and M. Rennels, 301; *erratum*, 1476
Neuronal correlates of habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, I. Kupfermann *et al.*, 1743
Neuronal mechanism of habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, V. Castellucci *et al.*, 1745
Neuronal soma and whole neuroglia of rat brain: a new isolation technique, W. T. Norton and S. E. Poduslo, 1144
Neurophysiological localization of the vertical and horizontal visual coordinates in man, L. Maffei and F. W. Campbell, 386
Neutron activation analysis of milligram quantities of lunar rocks and soils, K. K. Turekian and D. P. Kharkar, 507
Neutrophils: their role in the formation of a tick feeding lesion, R. J. Tatchell and D. E. Moorhouse, 1002
Nevenzel, J. C. *See* Lee, R. F., *et al.*
New ringmaster—same circus? (*letter*), T. H. Jukes, 1199
New sites for cities and airports (*letter*), E. A. Wood, 1320
New uses for low-energy accelerators, *book review* by R. B. Leachman, 42
Newell, S. *See* Cheek, F. E., *et al.*
Newman, W. A., and R. H. Chesher: *Acanthaster*: a disaster? 1274
News and Comment: AAAS Boston meeting, 36; ambiguities for research in Senate's drug bill, 849; authorization for security checks, 1233; Bertrand Russell, 1110; "book bugging": a possible answer to library thefts?, 361; Britain weighs plan to make government labs earn their way, 964; CERN's new accelerator, but no decision on site, 358, 1231; civilian use for biological warfare facility under study, 1359; Columbia University curbs classified research, 362; criminal justice studies, 1474; detergents: side effects of the washday miracles, 151; education and funds for innovation, 1709; education and health funds, 355; educational reform in West Germany, 1108; endangered species and congressional curbs on international trade in rare animals, 152; Environmental Council named, 851; environmental policy act, 35; environmental teach-in, 269, 1594; European group setting up a technology institute, 850; fisheries research, 1471; Food and Drug Administration, 268, 1471; foundations and tax reform bill, 1598; France is putting scientists into its embassies, 1230; Galveston Bay, 1102; Hanford switches to ploughshares, 1357; Harvard genetics researcher quits science for politics, 963; helium stockpiling, 1593; HEW blacklists scrapped in new security procedures, 154; Italy and science, 1704; Japan, 31, 147, 264, 960; Korean science institute, 1354; Laird decentralization alters civilian and military roles, 965; Laird warns of "Soviet technological threat," 1360; Mansfield amendment, 1473, 1599; Medal of Science winners for 1969; M.I.T.: March 4 revisited, 1475; NASA has further cuts in university support spending, 1107; NASA: stretching out space program, 356; new feminism is potent force in birth-control policy, 1234; Nixon budget: science funding remains tight, 845; Nixon offers environmental program, 1105; Nixon's White House staff, 1232; panalba, 1710; Psychological Association apprehensive over a new communications system, 1228; research in Britain 1596; space program and biomedical research, 1469; strategic arms talks, 1707; water pollution, 360
NEWTON, C. W. *See* PALMÉN, E.
Newton, J. C. *See* Anderson, A. T., Jr., *et al.*
Newton, R. G.: Particles that travel faster than light, 1569
Next industrial revolution, The (*editorial*), A. Spilhaus, 1673
Nichiporuk, W. *See* Moore, C. B., *et al.*
NICKLESS, G. (Ed.), Inorganic sulphur chemistry, *book review* of, 1608
Nicole Oresme and the medieval geometry of qualities and motions, M. CLAGETT (Ed.), *book review* by E. A. Moody, 973
Nielsen, N. *See* Armer, P., *et al.*
1969 meeting of the AAAS: a brief appraisal, (*AAAS*), W. G. Berl, 1157
Nonhuman primates (*letter*), S. S. Kalter, 1564
Nonphotographic alpha autoradiography and neutron-induced autoradiography, K. Becker and D. R. Johnson, 1370
North American paleontological convention (*meeting report*), E. L. Yochelson, 398
North, W. J., and J. S. Pearse: Sea urchin population explosion in southern California coastal waters, 209
Norton, W. T., and S. E. Poduslo: Neuronal soma and whole neuroglia of rat brain: a new isolation technique, 1144
Nottebohm, F.: Ontogeny of bird song, 950
Novick, S.: Nuclear power plants: how many? (*letter*), 6
Nuclear power plants: how many? (*letter*), S. Novick, 6
Nucleotide sequence of an RNA from cells infected with adenovirus 2, K. Ohe and S. M. Weissman, 879
Nucleus and cytoplasm, H. HARRIS, *book review* by A. W. Ravin, 165
Number words and number symbols, K. MENNINGER, *book review* by C. B. Boyer, 366
Nur, A. *See* Kanamori, H., *et al.*
Nyquist, L. E. *See* Pepin, R. O., *et al.*

O

O'Bar, P. R. *See* Woods, A. H.
Oberle, M. W. (*News and Comment*): endangered species and congressional curbs on international trade in rare animals, 152
Ocean, The: a natural source of carbon monoxide, J. W. Swinnerton *et al.*, 984
Ochs, S., and N. Ranish: Metabolic dependence of fast axoplasmic transport in nerve, 875
Odartchenko, N., and M. Pavillard: Late DNA replication in male mouse meiotic chromosomes, 1133
OETTINGER, A. G., Run, computer, run, *book review* of, 1607
Ogden, J. G. III: *book review* of The archaeology of Martha's Vineyard, 168
O'Hara, M. J., *et al.*: Experimental petrology of lunar material: the nature of mascons, seas, and the lunar interior, 605
Ohe, K., and S. M. Weissman: Nucleotide sequence of an RNA from cells infected with adenovirus 2, 879
OHMAN, Y. (Ed.), Mass motions in solar flares and related phenomena, *book review* of, 1714B
Ohtsuki, M. *See* Fernández-Morán, H., *et al.*
Oianpera, P. *See* Wiik, H. B.
O'Kelley, G. D., *et al.*: Elemental compositions and ages of lunar samples by nondestructive gamma-ray spectrometry, 580
O'Leary, B. T. *See* Gold, T., *et al.*
Olfactory bulb removal eliminates mating behavior in the male golden hamster, M. R. Murphy and G. E. Schneider, 302
Oligodeoxyribonucleotides: chemical synthesis in anhydrous base, R. von Tigerstrom and M. Smith, 1266
Olney, J. W. *See* Lowe, C. U., *et al.*
Olsen, E. J. *See* Anderson, A. T., Jr., *et al.*
Olson, E. C.: *book review* of Kratkii ocherk teorii evolyutsii (An outline of evolutionary concepts), Prichiny vyrmiraniya organizmov (Causes of extinctions of organisms), and Voprosy methodologii v izuchenii organicheskogo mira (Problems of methodology in the study of evolution of the organic world), 273
Omer, T. F. *See* Albright, J. F., *et al.*
Oncogenic purine derivatives: evidence for a possible proximate oncogen, G. Stöhrer and G. B. Brown, 1622
O'Neil, J. R. *See* Friedman, I., *et al.*
Ontogeny of bird song, F. Nottebohm, 950
Onuma, N., *et al.*: Oxygen isotope fractionation between minerals and an estimate of the temperature of formation, 536
Opaque minerals in lunar samples, E. N. Cameron, 623
Opaque minerals of the lunar rocks and dust from Mare Tranquillitatis, P. Ramdohr and A. El Goresey, 615
Open inspection of CBW (*letter*), H. R. Herschman, 1079
Oppenheimer case, The, P. M. STERN, *book review* by H. Kalven, Jr., 1114
Opponent color cells in the cat lateral geniculate nucleus, A. L. Pearlman and N. W. Daw, 84
Optical and high-frequency electrical properties of the lunar sample, T. Gold *et al.*, 707
Orbital symmetry control of chemical reactions, R. Hoffmann and R. B. Woodward, 825
O'Reilly, W. *See* Runcorn, S. K., *et al.*
Organic analysis of the returned lunar sample, P. I. Abell *et al.*, 757; *erratum*, 1759
Organic compounds in lunar samples: pyrol-

ysis products, hydrocarbons, amino acids, B. Nagy *et al.*, 770
Organogenic elements and compounds in surface samples from the Sea of Tranquillity, J. Oró *et al.*, 765
Oró, J., *et al.*: Organogenic elements and compounds in surface samples from the Sea of Tranquillity, 765
Osawa, M. *See* Goleš, G. G., *et al.*
Oschman, J. L. *See* Wall, B. J., *et al.*
Oser, B. L. *See* Price, J. M., *et al.*
O'Shea, M. *See* Ferone, R., *et al.*
Otalora, G. *See* Hargraves, R. B., *et al.*
Our ears do deceive us (*letter*), J. R. Pierce, 1561
Our fragile environment (*letter*), J. Caffrey, Overall, J. C., Jr., and L. A. Glasgow: Fetal response to viral infection: interferon production in sheep, 1139
Overgrowth stimulating factor released from Rous sarcoma cells, H. Rubin, 1271
Owen, T.: The atmosphere of Jupiter, 1675
Oxidative and photosynthetic phosphorylation mechanisms, J. H. Wang, 25
$^{18}O/^{16}O$, $^{30}Si/^{28}Si$, D/H, and $^{13}C/^{12}C$ studies of lunar rocks and minerals, S. Epstein and H. P. Taylor, Jr., 533
Oxygen isotope fractionation between minerals and an estimate of the temperature of formation, N. Onuma *et al.*, 536
Oxygen, silicon, and aluminum in lunar samples by 14 MeV neutron activation, W. D. Ehmann and J. W. Morgan, 528
Oyama, V. I., *et al.*: A search for viable organisms in a lunar sample, 773

P

Paffenhöfer, G.-A. *See* Lee, R. F., *et al.*
Page, L. A.: Element 104: what's in a name? (*letter*), 1076
Page, T. F., Jr., *et al.*: Polywater: proton nuclear magnetic resonance spectrum, 51
Paige, R. A.: Stalactite growth beneath sea ice, 171
PALMEN, E., and C. W. NEWTON, Atmospheric circulation systems, *book review* of, 972
Panofsky, H. A. *See* Dutton, J. A.
Papanastassiou, D. A. *See* Albee, A. L., *et al.*
Papike, J. J. *See* Ross, M., *et al.*
Paradis, L. I. *See* Tolstoy, P.
Paradoxical sleep in two species of avian predator (Falconiformes), J. A. Rojas-Ramirez and E. S. Tauber, 1754
Pardee, A. B. *See* Fox, T. O.
Pardo, M. *See* Slifkin, M., *et al.*
Parks, G. K. *See* Kinloch, B. B., Jr., *et al.*
Particle track, x-ray, thermal, and mass spectrometric studies of lunar material, R. L. Fleischer *et al.*, 568
Particles that travel faster than light, R. G. Newton, 1569
Passive seismic experiment, G. V. Latham *et al.*, 455
Pattern of bombardment-produced radionuclides in rock 10017 and in lunar soil, J. P. Shedlovsky *et al.*, 574; *erratum*, 1759
Patterson, J. H. *See* Franzgrote, E. J., *et al.* *See also* Turkevich, A. L., *et al.*
Pavillard, M. *See* Odartchenko, N.
PAYLORE, P. *See* MCGINNIES, W. G., *et al.*
Peacock, J. W. *See* Doskotch, R. W., *et al.*
Pearce, G. W. *See* Strangway, D. W., *et al.*
Pearlman, A. L., and N. W. Daw: Opponent color cells in the cat lateral geniculate nucleus, 84
Pearse, J. S. *See* North, W. J.
Peasants in the modern world, P. K. BOCK (Ed.), *book review* by S. W. Mintz, 1604
Peck, L. C., and V. C. Smith: Quantitative chemical analysis of lunar samples, 532
Peckett, A. *See* Agrell, S. O., *et al.*
Penfield, H. *See* Ball, J. A., *et al.*
Penicillin as epileptogenic agent: its effect on an isolated neuron, G. F. Ayala *et al.*, 1257
Pepin, R. O., *et al.*: Isotopic composition of rare gases in lunar samples, 550
Perceptual restoration of missing speech sounds, R. M. Warren, 392
Periglacial environment, The, T. L. PEWE (Ed.), *book review* by S. C. Porter, 365
Perils of disease (*letter*), T. H. Jukes, 126
Perils of disease—II (*letters*), A. R. Longhurst and D. K. Evans, 1561
Perkins, R. W., *et al.*: Cosmogenic and primordial radionuclides in lunar samples by nondestructive gamma-ray spectrometry, 577
Perkinson, J. D.: Brighter future for Latin American science education (*letter*), 335
Peroxidase-mediated virucidal systems, M. E. Belding *et al.*, 195
Persisting circadian rhythm of cell division in a photosynthetic mutant of *Euglena*, R. M. Jarrett and L. N. Edmunds, Jr., 1730
Peterson, E. *See* Hodgson, G. W., *et al.*
Petrogenesis of lunar basalts and the internal constitution and origin of the moon, A. E. Ringwood and E. Essene, 607
Petrographic, mineralogic, and x-ray fluorescence analysis of lunar igneous-type rocks and spherules, G. M. Brown *et al.*, 599
Petrologic history of moon suggested by petrography, mineralogy, and crystallography, A. T. Anderson, Jr., *et al.*, 587
Petrology of a fine-grained igneous rock from the Sea of Tranquillity, D. F. Weill *et al.*, 635; *erratum*, 1758, 1759
Petrology of unshocked crystalline rocks and shock effects in lunar rocks and minerals, E. C. T. Chao *et al.*, 644
Petsko, G. A.: Proton magnetic resonance spectrum of polywater, 171
PEWE, T. L. (Ed.), The periglacial environment, *book review* of, 365
Pfeiffer, R. S., and C. E. Molnar: Cochlear nerve fiber discharge patterns: relationship to the cochlear microphonic, 1614
Phase chemistry, structure, and radiation effects in lunar samples, G. Arrhenius *et al.*, 659
Phase-space dynamics of particles, A. J. LICHTENBERG, *book review* by T. A. Welton, 1609
Phillips, R. *See* Brown, G. M., *et al.*
Philpott, D. *See* Barghoorn, E. S., *et al.* *See also* Ponnamperuma, C., *et al.*
Philpotts, J. A. *See* Adler, I., *et al.*
Philpotts, J. A., and C. C. Schnetzler: Potassium, rubidium, strontium, barium, and rare-earth concentrations in lunar rocks and separated phases, 493
Phinney, D. *See* Pepin R. O. *et al.*
Photooxidation of DDT and DDE, J. R. Plimmer *et al.*, 67
Photoperiodic induction and termination of diapause in an insect: response to changing day lengths, M. J. Tauber and C. A. Tauber, 170
Photoperiodically significant photoreception in sparrows: is the retina involved?, H. Underwood and M. Menaker, 298
Physical and chemical aspects of ionization and excitation processes (*meeting report*), F. Williams, 1522
Physiological effects of transcendental meditation, R. K. Wallace, 1751
Physiology and medicine of diving and compressed air work, The, P. B. BENNETT and D. H. ELLIOTT (Eds.), *book review* by H. A. Saltzman, 363
Physiology and pathology of adaptation mechanisms, E. BAJUSZ *et al.*, *book review* by W. F. Ganong, 1243
Physicochemical principles of semiconductor doping, V. M. GLAZOV and V. S. ZEMSKOV, *book review* by F. A. Trumbore, 276
Pierce, J. R.: Our ears do deceive us (*letter*), 1561
Pilcher, C. B., *et al.*: Saturn's rings: identification of water frost, 1372
Pillinger, C. T. *See* Abell, P. I., *et al.*
Pimentel, G. C. *See* Herr, K. C.
Pineal gland: dibutyryl cyclic adenosine monophosphate stimulation of labeled melatonin production, D. C. Klein *et al.*, 1738
Pinsker, H. *See* Castellucci, V., *et al.* *See also* Kupfermann, I., *et al.*
Pinsker, H., *et al.*: Habituation and dishabituation of the gill-withdrawal reflex in *Aplysia*, 1740
Pinson, W. H., Jr. *See* Hurley, P. M.
Placental transfer of a substituted pteridine from fetus to mother, J. L. McNay and P. G. Dayton, 988
Planarian regeneration, H. V. BRONDSTED, *book review* by S. J. Coward, 1117
Planning for PEOPLE (*letter*), R. D. Shriner, 7
Plant, A. G. *See* Douglas, J. A. V., *et al.*
Plant-pathogenic mycoplasma-like organism: maintenance in vitro and transmission to *Zea mays* L., T. Chen and R. R. Granados, 1633
Pleistocene climates in the Atlantic and Pacific oceans: a comparison based on deep-sea sediments, D. B. Ericson and G. Wollin, 1483
Plimmer, J. R., *et al.*: Photooxidation of DDT and DDE, 67
Plotkin, H. H. *See* Alley, C. O., *et al.* (23 Jan.). *See also* Alley, C. O., *et al.* (30 Jan.)
Pocklington, R., and C. V. Haynes: Man's first route to America (*letters*), 1670
Podolsky, R. J. *See* Ford, L. E.
Podosek, F. A. *See* Albee, A. L., *et al.*
Poduslo, S. E. *See* Norton, W. T.
Pollard, E. C.: *book review* of Biology and the physical sciences and Theoretical physics and biology, 272
Pollen, D. A. *See* Trachtenberg, M. C.
Pollen, D. A., and M. C. Trachtenberg: Neuroglia: gliosis and focal epilepsy, 1252
Pollock, G. *See* Ponnamperuma, C., *et al.*
Polyinosinic acid • polycytidylic acid: inhibition of DNA synthesis stimulated by isoproterenol, F. T. Serota and R. Baserga, 1379
Polyinosinic-polycytidylic acid inhibits chemically induced tumorigenesis in mouse skin, H. V. Gelboin and H. B. Levy, 205
Polyploidy in the common tree toad *Hyla versicolor* Le Conte, A. O. Wasserman, 385
"Polywater": a hydrosol?, S. L. Kurtin *et al.*, 1720
Polywater: methods for identifying polywater columns and evidence for ordered growth, G. A. Castellion *et al.*, 865
Polywater: polymer or artifact? D. I. Rousseau and S. P. S. Porto, 1715
Polywater: proton nuclear magnetic resonance spectrum, T. F. Page, Jr., *et al.*, 51
Pomeranz, Y., *et al.*: Molecular approach to breadmaking, 944
Ponnamperuma, C. *See* Hodgson, G. W., *et al.*
Ponnamperuma, C., *et al.*: Search for organic compounds in the lunar dust from the Sea of Tranquillity, 760
Population control, sterilization, and ignorance (*editorial*), T. Eisner *et al.*, 337
Population controls (*letters*), G. Gelber *et al.*, 1438
Population crisis: go back to the country! (*letters*), J. F. Wohlwill and C. G. Shaw, 333
Porphyrins and related compounds, T. W. GOODWIN (Ed.), *book review* by J. H. Mathewson, 1117
Porter, S. C.: *book review* of The periglacial environment, 365
Porto, S. P. S. *See* Rousseau, D. I.
Postglacial vegetational history of the Great Plains, P. V. Wells, 1574
Postnatal muscle fiber assembly: localization of newly synthesized myofibrillar proteins, E. Morkin, 1499
Posttranscriptional control in the steroid-mediated induction of hepatic tyrosine transaminase, I. B. Levitan and T. E. Webb, 283
Potassium ion specific electrode with high selectivity for potassium over sodium, M. S. Frant and J. W. Ross, Jr., 987
Potassium ions asymmetrically activate erythrocyte membrane phosphatase, A. F. Rega *et al.*, 55
Potassium, rubidium, strontium, barium, and rare-earth concentrations in lunar rocks and separated phases, J. A. Philpotts and C. C. Schnetzler, 493
Potter, N. M. *See* Morrison, G. H., *et al.*
Potter, V. R., *et al.*: Purpose and function of the university, 1590
Pouchan, M. I. *See* Rega, A. F., *et al.*
Poultney, S. K. *See* Alley, C. O., *et al.* (23 Jan.). *See also* Alley, C. O., *et al.* (30 Jan.)
Powell, B. N. *See* Wood, J. A., *et al.*
Powers, A. S. *See* Behrend, E. R., *et al.*
Pozefsky, T. *See* Felig, P., *et al.*
Prehistoric animals and their hunters, L. W. CORNWALL, *book review* by B. Kurten, 1241
Preliminary examination of lunar samples from Apollo 12, Lunar Sample Preliminary Examination Team, 1325
Prenatal determinants of behaviour, J. M. JOFFE, *book review* by R. Ader, 857
Preparation of beating heart cells from adult rats, G. V. Vahouny *et al.*, 1616
Press, F.: *book review* of The application of modern physcis to the earth and planetary interiors, 1482. *See also* Latham, G. V., *et al.*
Preti, G. *See* Murphy, R. C., *et al.*
Prevention of metamorphosis by exposure of insect eggs to juvenile hormone analogs, L. M. Riddiford, 287

Price, J. M., *et al.*: Bladder tumors in rats fed cyclohexylamine or high doses of a mixture of cyclamate and saccharin, 1131
Price, P. B. *See* Fleischer, R. L., *et al.*
Prichiny vymiraniya organizmov (Causes of extinctions of organisms), L. SH. DAVITASHVILI, *book review* by E. C. Olson, 273
Principles of systematic zoology, E. MAYR, *book review* by O. W. Richards, 1477
Prinz, M. *See* Keil, K., *et al.*
Prior, D. B., *et al.*: Bentonite landslides, 1014
Privacy invasion (*letter*), J. V. Smith, 1439
Production of mouse urinary bladder carcinomas by sodium cyclamate, G. T. Bryan and E. Ertürk, 996
Progress in abating air pollution (*editorial*), P. H. Abelson, 1567
Proinsulin: metabolic effects in the human forearm, S. E. Fineberg and T. J. Merimee, 998
PROKOP, O., and G. UHLENBRUCK, Human blood and serum groups, *book review* of, 1365
Prospero, J. M., and T. N. Carlson: Radon-222 in the north Atlantic trade winds: its relationship to dust transport from Africa, 974
Proton magnetic resonance spectrum of polywater, G. A. Petsko, 171
Pryor, W. D.: *book review* of Inorganic sulphur chemistry, 1608
Pseudohermaphrodite rat: end organ insensitivity to testosterone, C. W. Bardin *et al.*, 1136
"Psychogenic" death: a reappraisal, G. V. Barrett and R. H. Franke, 304
Purified transfer RNA's (*letter*), A. D. Kelmers and M. P. Stulberg, 237; *erratum*, 852
Purkyne symposium (*meeting report*), C. D. Leake, 210
Purpose and function of the university, V. R. Potter *et al.*, 1590
Pyrolysis-hydrogen flame ionization detection of organic carbon in a lunar sample, R. D. Johnson and C. C. Davis, 759
Pysh, E. S.: Conformations at local energy minimums for gramicidin S: optical calculations, 290

Q

Quaide, W., *et al.*: Impact metamorphism of lunar surface materials, 671
Quantitative chemical analysis of lunar samples, L. C. Peck and V. C. Smith, 532
Quantitative optical and electron-probe studies of the opaque phases, P. R. Simpson and S. H. U. Bowie, 619
Quijano-Rico, M. *See* Wänke, H., *et al.*

R

Radcliffe, S. V., *et al.*: High-voltage transmission electron microscopy study of lunar surface material, 638
Radiation biology of the fetal and juvenile mammal (*meeting report*), M. R. Sikov, 1640
Radomski, J. L., and E. Brill: Bladder cancer induction by aromatic amines: role of *N*-hydroxy metabolites, 992
Radon-222 in the north Atlantic trade winds: its relationship to dust transport from Africa, J. M. Prospero and T. N. Carlson, 974
Rahn, R. O.: *book review* of Molecular photobiology, 168
Raimy, V.: *book review* of Clinical psychology as science and profession, 366
Raleigh, C. B. *See* Chao, E. C. T., *et al.*
Ramdohr, P., and A. El Goresey: Opaque minerals of the lunar rocks and dust from Mare Tranquillitatis, 615
Rancitelli, L. A. *See* Perkins, R. W., *et al.*
Randle, K. *See* Goleš, G. G., *et al.*
Randtke, A. See Menzel, D. W., *et al.*
Rangia cuneata on the East Coast: thousand mile range extension, or resurgence?, S. H. Hopkins and J. D. Andrews, 868
Ranish, N. *See* Ochs, S.
Rankin, J. *See* Potter, V. R., *et al.*
Ranks of donor-recipient histocompatibility for human transplantation, F. T. Rapaport and J. Dausset, 1260
Rapaport, F. T., and J. Dausset: Ranks of donor-recipient histocompatibility for human transplantation, 1260
RAPOPORT, A., House form and culture, *book review* of, 274
Rare earth elements in returned lunar samples, L. A. Haskin *et al.*, 487
Rare gases, hydrogen, and nitrogen: concentrations and isotopic composition in lunar material, H. Hintenberger *et al.*, 543
Rare gases in lunar samples: study of distribution and variations by a microprobe technique, T. Kirsten *et al.*, 571
Raschke, K.: Leaf hydraulic system: rapid epidermal and stomatal responses to changes in water supply, 189
Rat thoracic duct lymphocytes: types that participate in inflammation, F. Koster and D. D. McGregor, 1137
Rat's preference for earned in comparison with free food, B. Carder and K. Berkowitz, 1273
Raven, P. H. *See* Shapiro, A. M., *et al.*
Ravin, A. W.: *book review* of Nucleus and cytoplasm, 165
Ray, C. G. *See* Belding, M. E., *et al.*
Rayner, J. D. *See* Alley, C. O., *et al.* (23 Jan.)
Reactivity in vivo of the carcinogen *N*-hydroxy-2-acetylaminofluorene: increase by sulfate ion, J. R. DeBaun *et al.*, 184
Reassembly of living cells from dissociated components, K. W. Jeon *et al.*, 1626
Reca, M. E. *See* Berliner, M. D.
Recent developments in carbonate sedimentology in Central Europe, G. MÜLLER and G. M. FRIEDMAN (Eds.), *book review* by H. C. W. Skinner, 42
Receptor potentials from hair cells of the lateral line, G. G. Harris *et al.*, 76
Reed, C. A.: *book review* of Domestic animals of China, 1713
Reed, G. W., Jr., *et al.*: Trace elements and accessory minerals in lunar samples, 501
Reed, T. E. *See* Workman, P. L.
Reed, W. *See* Burlingame, A. L., *et al.*
Reed, W. E.: *book review* of Sourcebook for petroleum geology, 1481
Reedy, R. C. *See* Shedlovsky, J. P., *et al.*
Refractory oxide–metal composites: scanning electron microscopy and x-ray diffraction of uranium dioxide–tungsten, R. J. Gerdes *et al.*, 979
Rega, A. F., *et al.*: Potassium ions asymmetrically activate erythrocyte membrane phosphatase, 55
Regenerative calcium release within muscle cells, L. E. Ford and R. J. Podolsky, 58
Reid, A. M. *See* Arrhenius, G., *et al.*
Release of protoplasts in the yeast phase of *Histoplasma capsulatum* without added enzyme, M. D. Berliner and M. E. Reca, 1255
Rennels, M. *See* Nelson, E.
Reproductive physiology of marsupials, G. B. Sharman, 1221
Research management, W. V. Smith, 957
Research Topics: controlled fusion: plasma heating with lasers, 1112; galaxies and quasars, 1601; gravitational waves, 1237; molecular biology, 157; power generation in the next 30 years, 159; radiation risk, 853
Response of olfactory bulb neurons to x-rays as a function of nasal oxygen concentration, G. P. Cooper, 1726
Restle, F.: Moon illusion explained on the basis of relative size, 1092
Rey, P. *See* Murthy, V. R., *et al. See also* Schmitt, R. A., *et al.*
Reynolds, J. H., *et al.*: Isotopic analysis of rare gases from stepwise heating of lunar fines and rocks, 545
REYNOLDS, M. J. *See* DOTT, R. H., SR.
Reynolds, R. C. *See* Prior, D. B., *et al.*
Reynolds, S. R. M.: Well-rounded egghead (*letter*), 238
Rho, J. H., *et al.*: Fluorometric examination of a lunar sample, 754
Rhoades, B. E. *See* Azumaya, G., *et al.*
Rhodanine: a selective inhibitor of the multiplication of echovirus 12, H. J. Eggers *et al.*, 294
Rice, M. E.: Asexual reproduction in a sipunculan worm, 1618
Richards, O. W.: *book review* of Principles of systematic zoology, 1477
Richardson, A. *See* Watkins, N. D.
Richardson, H. *See* Alley, C. O., *et al.* (23 Jan.)
Richardson, K. A., *et al*: Alpha-particle activity of Apollo 11 samples, 516
Richardson, S. W. *See* O'Hara, M. J., *et al.*
Richter, C. F. See Anderson, D. L., *et al.*
Riddiford, L. M.: Prevention of metamorphosis by exposure of insect eggs to juvenile hormone analogs, 287. *See* Truman, J. W.
Rieder, R. *See* Wänke, H., *et al.*
Riley, D. L. *See* Herzenberg, C. L.
Ringwood, A. E., and E. Essene: Petrogenesis of lunar basalts and the internal constitution and origin of the moon, 607
Riordan, J. F.: *book review* of Enzyme handbook, 860
RITCHIE, W. A., The archaeology of Martha's Vineyard, *book review* of, 168
5*S* RNA synthesized by *Escherichia coli* in presence of chloramphenicol: different 5′-terminal sequences, B. G. Forget and B. Jordan, 382
Roberts, W. O.: After the moon, the earth!, 11
Robie, R. A., *et al.*: Specific heats of lunar surface materials from 90 to 350 degrees Kelvin, 749; *erratum*, 1759
Robinson, D. N.: Critical flicker-fusion of solid and annular stimuli, 207
Rochlin, G. I.: *book review* of Tunneling phenomena in solids, 1116
Rochow, W. F.: Barley yellow dwarf virus: phenotypic mixing and vector specificity, 875
Roedder, E., and P. W. Weiblen: Silicate liquid immiscibility in lunar magmas, evidenced by melt inclusions in lunar rocks, 641
ROGERS, E. M., and L. SVENNING, Modernization among peasants, *book review* of, 1604
ROHLF, F. J. *See* SOKAL, R. R.
ROHLF, F. J., and R. R. SOKAL, Statistical tables, *book review* of, 165
Rojas-Ramírez, J. A., and E. S. Tauber: Paradoxical sleep in two species of avian predator (Falconiformes), 1754
Rokop, D. J. *See* Fields, P. R., *et al.*
Romano, M. N. *See* Jewett, D. L., *et al.*
Rose, H. J., Jr., *et al.*: Semimicro chemical and x-ray fluorescence analysis of lunar samples, 520
Rosen, E.: *book review* of Mechanics in sixteenth-century Italy, 169
Rosenblatt, F. *See* Eisner, T., *et al.*
Rosenblum, E. E. *See* Good, R., *et al.*
Rosenblum, M. *See* Good, R., *et al.*
Rosenfeld, A. R. *See* Kanninen, M. F., *et al.*
Rosenkrantz, P. S. *See* Clarkson, F. E., *et al.*
Rosewater, J.: Monoplacophora in the south Atlantic Ocean, 1485
Rosholt, J. N. *See* Tatsumoto, M.
Ross, J. W., Jr. *See* Frant, M. S.
Ross, M., *et al.*: Lunar clinopyroxenes: chemical composition, structural state, and texture, 628
Ross, R. R. *See* Alvarez, L. W., *et al.* (30 Jan.)
Rossi, G. B., and C. Friend: Lymphomas in mice: failure of induction after a graft-versus-host reaction, 1383
Rossi, P. H.: *book review* of Run, computer, run, 1607
Rotation of the Iberian peninsula, N. D. Watkins and A. Richardson, 209
Rothenberg, A. M. *See* Morrison, G. H., *et al.*
Rousseau, D. L., and S. P. S. Porto: Polywater: polymer or artifact?, 1715
Rovainen, C. M.: Glucose production by lamprey meninges, 889
Rowell, R. L. *See* Stein, R. S.
Rubidium-strontium age and elemental and isotopic abundances of some trace elements in lunar samples, V. R. Murthy *et al.*, 476
Rubidium-strontium chronology and chemistry of lunar material, W. Compston *et al.*, 474
Rubidium-strontium relations in Tranquillity Base samples, P. M. Hurley and W. H. Pinson, Jr., 473
Rubidium-strontium, uranium, and thorium-lead dating of lunar material, K. Gopalan *et al.*, 471
Rubin, H.: Overgrowth stimulating factor released from Rous sarcoma cells, 1271
Rüdel, R. *See* Taylor, S. R.
Run, computer, run, A. G. OETTINGER, *book review* by P. H. Rossi, 1607
RUNCORN, S. K., The application of modern physics to the earth and planetary interiors, *book review* of, 1482
Runcorn, S. K., *et al.*: Magnetic properties of lunar samples, 697
Rushmer, R. F., and L. L. Huntsman: Biomedical engineering, 840
Russ, G. P., II. *See* Albee, A. L., *et al.*
Russell, P. S.: *book review* of Experience in hepatic transplantation, 364
Russell, R. L. *See* Fresco, J. R., *et al.*
Russian roulette? (*editorial*), P. Cloud, 1321

Ryall, A. *See* Anderson, D. L., *et al.*
Ryan, J. A. *See* Grossman, J. J., *et al.*
Ryan, W. L., and H. C. Sornson: Glycine inhibition of asparaginase, 1512

S

SADUN, E. H., and A. P. MOON (Eds.), Experimental malaria, *book review* of, 1608
SALANKI, J. (Ed.), Neurobiology of invertebrates, *book review* of, 1712
Saltzman, H. A.: *book review* of The physiology and medicine of diving and compressed air work, 363
Salzman, N. P. *See* Schneider, E. L.
Samuels, L. T.: *book review* of The gonads, 43
Sanz, H. G. *See* Albee, A. L., *et al.*
Sarid, S. *See* Daniel, V., *et al.*
Satir, B.: Control of form in cells (*meeting report*), 307
Saturn's rings: identification of water frost, C. B. Pilcher *et al.*, 1372
Saurian malaria: development of sporozoites in two species of phlebotomine sandflies, S. C. Ayala and D. Lee, 891
Scandalios, J. G. *See* Lewontin, R. C.
Scanning electron microscopy of fresh leaves of *Pinguicula*, Y. Heslop-Harrison, 172
Scattering of light and other electromagnetic radiation, The, M. KERKER, *book review* by R. S. Stein and R. L. Rowell, 861
Scene of change, W. WEAVER, *book review* by D. Wolfle, 856
Schaber, G. G. *See* Shoemaker, E. M., *et al.*
Schaeffer, O. A. *See* Funkhouser, J. G., *et al.*
Schapiro, S., and K. R. Vukovich: Early experience effects upon cortical dendrites: a proposed model for development, 292
Scharff, M. D. *See* Coffino, P., *et al.*
Schechter, A. N., *et al.*: Kinetics of folding of staphylococcal nuclease, 886
Schleicher, D. L. *See* Shoemaker, E. M., *et al.*
Schmidt-Nielsen, B. *See* Wall, B. J., *et al.*
Schmitt, R. A. *See* Murthy, V. R., *et al.*
Schmitt, R. A., *et al.*: Abundances of 30 elements in lunar rocks, soil, and core samples, 512
Schneider, E. L., and N. P. Salzman: Isolation and zonal fractionation of metaphase chromosomes from human diploid cells, 1141
Schneider, G. *See* Bardin, C. W., *et al.*
Schneider, G. E. *See* Murphy, M. R.
Schnetzler, C. C. *See* Philpotts, J. A.
Scholz, C. *See* Schreiber, E., *et al.*
Schonfeld, E. *See* O'Kelley, G. D., *et al.*
Schopf, J. W.: Micropaleontological studies of lunar samples, 779. *See also* Ponnamperuma, C., *et al.*
Schreiber, E., *et al.*: Sound velocity and compressibility for lunar rocks 17 and 46 and for glass spheres from the lunar soil, 732
SCHWABE, G. H. *See* FITTKAU, E. J., *et al.*
Schwaller, H. *See* Eberhardt, P., *et al.*
Schwartz, E.: Heterozygous beta thalassemia: balanced globin synthesis in bone marrow cells, 1513
Schwartz, I. L. *See* Douša, T., *et al.*
Schwarz, E. J. *See* Larochelle, A.
Schwartz, M., *et al.*: Insect juvenile hormone: activity of selected terpenoid compounds, 191
Schwarzmüller, J. *See* Eberhardt, P., *et al.*
Scientific writing (*letters*), R. Good *et al.*, 932
Sclar, C. B.: Shock-wave damage in minerals of lunar rocks, 675
Scoon, J. H. *See* Agrell, S. O., *et al.*
Scott, R. F. *See* Costes, N. C., *et al.*
Scott, W. M. *See* Nagy, B., *et al.*
Sea urchin population explosion in southern California coastal waters, W. J. North and J. S. Pearse, 209
Search for alkanes of 15 to 30 carbon atom length, W. G. Meinschein *et al.*, 753
Search for an effect of the sun on the frequency of 18-centimeter radiation, J. A. Ball *et al.*, 1755
Search for hidden chambers in the pyramids, L. W. Alvarez *et al.*, 832
Search for magnetic monopoles in the lunar sample, L. W. Alvarez *et al.*, 701
Search for magnetite in lunar rocks and fines, J. Jedwab *et al.*, 618
Search for organic compounds in the lunar dust from the Sea of Tranquillity, C. Ponnamperuma *et al.*, 760
Search for organic material in lunar fines by mass spectrometry, R. C. Murphy *et al.*, 755
Search for porphyrins in lunar dust, G. W. Hodgson *et al.*, 763
Search for viable organisms in a lunar sample, A. V. I. Oyama *et al.*, 773
Seegmiller, J. E. *See* Greene, M. L., *et al.*
Seitz, M. *See* Crozaz, G., *et al.*
Selective Service and college enrollment (*editorial*), D. Wolfle, 129
Self and not-self, M. BURNET, *book review* by J. D. Ebert, 1508
Sellers, G. A. *See* Duke, M. B., *et al.*
Semimicro chemical and x-ray fluorescence analysis of lunar samples, H. J. Rose, Jr., *et al.*, 520
Senescence and genetic load: evidence from *Tribolium*, R. R. Sokal, 1733
Senescence in detached betel leaves: role of the petiole, S. D. Mishra and B. K. Gaur, 387
Senftle, F. E. *See* Doell, R. R., *et al.*
Serota, F. T., and R. Baserga: Polyinosinic acid • polycytidylic acid: inhibition of DNA synthesis stimulated by isoproterenol, 1379
Sex control by bees: a voluntary act of egg fertilization during oviposition, H. S. Gerber and E. C. Klostermeyer, 82
Sexual reproduction in *Candida lipolytica*, L. J. Wickerham *et al.*, 1141
SHAKOW, D., Clinical psychology as science and profession, *book review* of, 366
Shapiro, A. M., *et al.*: Differentiation of populations, 1636
SHAPIRO, B. J., John Wilkins, 1614–1672, *book review* of, 167
Shapiro, H. M.: Giant panda doesn't travel (*letter*), 1438
Shapiro, I. I. *See* Ball, J. A., *et al.*
Shapiro's defection (*letters*), J. R. Fresco *et al.*, 1668
Sharkawi, M. *See* Alvarez, L. W., *et al.* (6 Feb.)
Sharman, G. B.: Reproductive physiology of marsupials, 1221
Sharpe, L. G. *See* Lowe, C. U., *et al.*
Shaw, C. G. *See* Wohlwill, J. F.
Shear, C. B. *See* Bernstein, L., *et al.*
Shedlovsky, J. P., *et al.*: Pattern of bombardment-produced radionuclides in rock 10017 and in lunar soil, 574; *erratum*, 1759
Sheffield, H. G., and M. L. Melton: *Toxoplasma gondii*: the oocyst, sporozoite, and infection of cultured cells, 892
Shell-model approach to nuclear reactions, C. MAHAUX and H. A. WEIDERMULLER, *book review* by W. M. MacDonald, 860
Sherman, S. *See* Azumaya, G., *et al.*
Shift of NSF funds (*letter*), G. Azumaya *et al.*, 1671
Shiner, V. J., Jr. *See* Meinschein, W. G., *et al.*
Shock metamorphism in lunar samples, W. von Engelhardt *et al.*, 669
Shock-wave damage in minerals of lunar rocks, C. B. Sclar, 675
Shoemaker, E. M., *et al.*: Lunar regolith at Tranquillity Base, 452
Short, N. M.: Evidence and implications of shock metamorphism in lunar samples, 673
Should college applicants be selected by lottery? (*letters*), A. P. Gray and A. W. Astin, 1075
Shriner, R. D.: Planning for PEOPLE (*letter*), 7
Shurcliff, W. A., *et al.*: Sonic booms over cities (*letters*), 1562
Sibal, L. R., and M. A. Fink: Cross-reactions of oncogenic viruses (*meeting report*), 309
Siebenberg, S. *See* Bové, J. L.
Sikov, M. R.: Radiation biology of the fetal and juvenile mammal (*meeting report*), 1640
Silicate liquid immiscibility in lunar magmas, evidenced by melt inclusions in lunar rocks, E. Roedder and P. W. Weiblen, 641
Silicon: a possible factor in bone calcification, E. M. Carlisle, 279
Silver, L. T.: Uranium-thorium-lead isotope relations in lunar materials, 468
Silverberg, E. C. *See* Alley, C. O., *et al.* (23 Jan.)
Silverman, M. P. *See* Oyama, V. I., *et al.*
Silvers, W. K., *et al.*: Mixed lymphocyte reactions and tissue transplantation tolerance, 1264
Silverstein, R. M. *See* Bedard, W. D., *et al.*
Simian virus 40 in polio vaccine: follow-up of newborn recipients, J. F. Fraumeni, Jr., *et al.*, 59
Simmons, G. *See* Horai, K., *et al.* *See also* Kanamori, H., *et al.*
Simon, R. B. *See* Karp, E.
Simoneit, B. R. *See* Burlingame, A. L., *et al.*
Simon, G. W.: *book review* of Mass motions in solar flares and related phenomena, 1714B
Simons, J. A.: δ-Aminolevulinic acid synthetase: induction in embryonic chick liver by glucagon, 1378
Simpson, G. G.: *book review* of The triumph of the Darwinian method, 1362
Simpson, P. R., and S. H. U. Bowie: Quantitative optical and electron-probe studies of the opaque phases, 619
Simulation of the mating advantage in mating of rare *Drosophila* males, L. Ehrman, 905
Singer, P. C., and W. Stumm: Acidic mine drainage: the rate-determining step, 1121
Sinkankas, J. *See* Arrhenius, G., *et al.*
Sinke, G. C.: Calorimetry (*meeting report*), 1526
SIOLI, H. *See* FITTKAU, E. J., *et al.*
Sippel, R. F., and A. B. Spencer: Cathodoluminescence properties of lunar rocks, 677
Skerra, B. *See* Herr, W., *et al.*
Skinner, B. J.: High crystallization temperatures indicated for igneous rocks from Tranquillity Base, 652
Skinner, H. C. W.: *book review* of Recent developments in carbonate sedimentology in Central Europe, 42
Slesser, A. E.: Drug quality: whose responsibility? (*letter*), 1439
Slifkin, M., *et al.*: Growth in vitro of cells from hyperplastic nodules of liver induced by 2-fluorenylacetamide or aflatoxin B_1, 285
Smales, A. A., *et al.*: Elemental composition of lunar surface material, 509
Smith, B. A. *See* Hess, S. L., *et al.*
Smith, D. E., *et al.*: Lateral hypothalamic control of killing: evidence for a cholinoceptive mechanism, 900
Smith, D. F., *et al.*: "Antidotal thirst": a response to intoxication, 297
Smith, J. V.: Privacy invasion (*letter*), 1439. *See also* Anderson, A. T., Jr., *et al.*
Smith, J. W. *See* Kaplan, I. R. *See also* Ponnamperuma, C., *et al.*
Smith, J. W., and I. R. Kaplan: Endogenous carbon in carbonaceous meteorites, 1367
Smith, J. Y. R. *See* DeBaun, J. R., *et al.*
SMITH, K. C., and P. C. HANAWALT, Molecular photobiology, *book review* of, 168
Smith, M. *See* von Tigerstrom, R.
Smith, S. W. *See* Anderson, D. L., *et al.*
Smith, V. C. *See* Peck, L. C.
Smith, W. J.: *book review* of Bird vocalizations, 39
Smith, W. V.: Research management, 957
Snyder, S. P. *See* Deinhardt, F., *et al.*
Social responsibilities of scientists (*editorial*), P. H. Abelson, 241
Social science research (*letters*), H. R. Alker, Jr., *et al.*, 819
Social status and psychological disorder, B. P. DOHRENWEND and B. S. DOHRENWEND, *book review* by R. J. Turner, 1363
Soga, N. *See* Schreiber, E., *et al.*
Sokal, R. R.: Senescence and genetic load: evidence from *Tribolium*, 1733
SOKAL, R. R. *See* ROHLF, F. J.
SOKAL, R. R., and F. J. ROHLF, Biometry, *book review* of, 165
Solar radiation effects in lunar samples, B. W. Hapke *et al.*, 745
Solar-terrestrial physics: solar aspects, A. C. STRICKLAND (Ed.), *book review* by T. L. Cline, 1115
Solar wind gases, cosmic ray spallation products, and the irradiation history, K. Marti *et al.*, 548
Solenoid magnet design, D. B. MONTGOMERY, *book review* by D. N. Lyon, 1244
Solid state studies of the radiation history of lunar samples, G. Crozaz *et al.*, 563
Somatic association in *Avena sativa* L., J. P. Dubuc and R. C. McGinnis, 999
Somatovisceral pathway: rapidly conducting fibers in the spinal cord, H. L. Fields and D. L. Winter, 1729
Some three-body atomic systems, J. W. McGowan, 1083
Sonic booms over cities (*letters*), W. A. Shurcliff *et al.*, 1562
Sonnet, P. E. *See* Schwarz, M., *et al.*
Sornson, H. C. *See* Ryan, W. L.
Sound velocity and compressibility for lunar rocks 17 and 46 and for glass spheres from the lunar soil, E. Schreiber *et al.*, 732
Sourcebook for petroleum geology, R. H.

DOTT, SR., and M. J. REYNOLDS, *book review* by W. E. Reed, 1481
Sowinski, K. P. *See* Franzgrote, E. J., *et al.* *See also* Turkevich, A. L., *et al.*
Space ride on Saturn V (*letter*), S. B. Kramer, 124
Sparling, P. F.: Kasugamycin resistance: 30*S* ribosomal mutation with an unusual location on the *Escherichia coli* chromosome, 56
Specific heats of lunar surface materials from 90 to 350 degrees Kelvin, R. A. Robie *et al.*, 749; *erratum*, 1759
Spectra of backscattered light from the sea obtained from aircraft as a measure of chlorophyll concentration, G. L. Clarke *et al.*, 1119
Spectral properties of disordered chains and lattices, J. HORI, *book review* by A. A. Maradudin, 364
Spectral reflectivity of lunar samples, J. B. Adams and R. L. Jones, 737
Spencer, A. B. *See* Sippel, R. F.
Spilhaus A.: The next industrial revolution (*editorial*), 1673
Spontaneous rhythmic contraction of separated heart muscle cells, S. Bloom, 1727
Sproll, W. P., *See* Dietz, R. S.
Spudich, J. A. *See* Fresco, J. R., *et al.*
Stalactite growth beneath sea ice, R. A. Paige, 171
Stanley, A. J. *See* Bardin, G. W., *et al.*
Stanley, J. C., *et al.*: How can we intervene "massively"? (*letters*), 123
Stark, G. R. *See* Fraumeni, J. F., Jr., *et al.*
Starkweather, R. *See* Vahouny, G. V., *et al.*
STARZL, T. E., Experience in hepatic transplantation, *book review* of, 364
Statistical tables, F. J. ROHLF and R. R. SOKAL, *book review* by L. Van Valen, 165
Steggerda, C. A. *See* Alley, C. O., *et al.* (23 Jan.)
Steigmann, G. A. *See* Geake, J. E., *et al.*
Stein, R. S., and R. L. Rowell: *book review* of The scattering of light and other electromagnetic radiation, 861
Steinberg, A. D., *et al.*: Tolerance to polyinosinic • polycytidylic acid in NZB/NZW mice, 870
Steinborn, T. L. *See* Goleš, G. G., *et al.*
Steinbrunn, F. *See* Kirsten, T., *et al.*
Steinfeld, J. *See* Price, J. M., *et al.*
Steinhausen, M., *et al.*: Countercurrent system in the renal cortex of rats, 1631
Steitz, T. A. *See* Fresco, J. R., *et al.*
Stephens, D. R., and E. M. Lilley: Compressibilities of lunar crystalline rock, microbreccia, and fines to 40 kilobars, 731
Stephenson, A. *See* Runcorn, S. K., *et al.*
Sterman, M. B., *et al.*: Facilitation of spindle-burst sleep by conditioning of electroencephalographic activity while awake, 1146
STERN, P. M., The Oppenheimer case, *book review* of, 1114
Stettler, A. *See* Eberhardt, P., *et al.*
Stevens, C. M. *See* Fields, P. R., *et al.*
Stevens, R. D. *See* Wanless, R. K., *et al.*
Stewart, A. I. *See* Dalgarno, A., *et al.*
Stewart, D. B., *et al.*: Crystallography of some lunar plagioclases, 634
ST-Feline fibrosarcoma virus: induction of tumors in marmoset monkeys, F. Deinhardt *et al.*, 881
Stoenner, R. W., *et al.*: Cosmic ray production of rare gas radioactivities and tritium in lunar material, 553
Stöffler, D. *See* von Engelhardt, W., *et al.*
Stöhrer, G., and G. B. Brown: Oncogenic purine derivatives: evidence for a possible proximate oncogen, 1622
Stoltz, D. R., *et al.*: Cytogenetic studies with cyclamate and related compounds, 1501
Stormont, C., and Y. Suzuki: Atropinesterase and cocainesterase of rabbit serum: localization of the enzyme activity in isozymes, 200
Strangway, D. W., *et al.*: Magnetic properties of lunar samples, 691
Strategies of American water management, G. F. WHITE, *book review* by H. P. Caulfield, Jr., 970
Striated muscle fibers: inactivation of contraction induced by shortening, S. R. Taylor and R. Rüdel, 882
STRICKLAND, A. C. (Ed.), Solar-terrestrial physics: solar aspects, *book review* of, 1115
Strong, A. E. *See* McClain, E. P., *et al.*
Structure of polywater, J. W. Linnett, 1719
Structure of water, B. Kamb *et al.*, 1520
Student unrest: sources and consequences, L. Eisenberg, 1688
Stulberg, M. P. *See* Ke. :rs, A. D.
Stumm, W. *See* Singer, P. C.
Stumpfl, E. F. *See* Bailey, J. C., *et al.*
Stupian, G. W.: Under the "liberal" umbrella (*letter*), 1318
Substrate stabilization: genetically controlled reciprocal relationship of two human enzymes, M. L. Greene *et al.*, 887
Summary of Apollo 11 Lunar Science Conference, Lunar Sample Analysis Planning Team, 449
Sun, S. *See* Crozaz, G., *et al.*
Sunglint patterns in satellite pictures, E. P. McClain *et al.*, 1757
Superdense water ice, A. H. Delsemme and A. Wenger, 44
Supersaturation of gases in water: absence of cavitation on decompression from high pressures, E. A. Hemmingsen, 1493
Surface properties of lunar samples, J. J. Grossman *et al.*, 743
Suspended matter in surface waters of the Atlantic continental margin from Cape Cod to the Florida Keys, F. T. Manheim *et al.*, 371
Sussman, M. V., and A. Katchalsky: Mechanochemical turbine: a new power cycle, 45
Sutton, G. *See* Latham, G. V., *et al.*
Sutton, R. L. *See* Shoemaker, E. M., *et al.*
Suzuki, Y. *See* Stormont, C.
SVENNING, L. *See* ROGERS, E. M.
Swann, G. A. *See* Shoemaker, E. M., *et al.*
Swanson, M. *See* Anderson, D. L., *et al.*
Swartzendruber, D. C. *See* Hayes, R. L., *et al.*
Swinnerton, J. W., *et al.*: The ocean: a natural source of carbon monoxide, 984
Symon, K. R. *See* Potter, V. R., *et al.*
Syono, Y. *See* Nagata, T., *et al.*

T

Talal, N. *See* Steinberg, A. D., *et al.*
Tampfli, J. *See* Azumaya, G., *et al.*
Tang, C.-W., and C. J. Maletskos: Elimination of sodium-24 and potassium-42 interferences in activation analysis of biological samples, 52
Tatchell, R. J., and D. E. Moorhouse: Neutrophils: their role in the formation of a tick feeding lesion, 1002
Tatsumoto, M., and J. N. Rosholt: Age of the moon: an isotopic study of uranium-thorium-lead systematics of lunar samples, 461
Tauber, C. A. *See* Tauber, M. J.
Tauber, E. S. *See* Rojas-Ramírez, J. A.
Tauber, M. J., and C. A. Tauber: Photoperiodic induction and termination of diapause in an insect: response to changing day lengths, 170
Taylor, H. P., Jr. *See* Epstein, S.
Taylor, S. R., and R. Rüdel: Striated muscle fibers: inactivation of contraction induced by shortening, 882
Teichert, C., *et al.*: Mixed Permian-Triassic fauna, Guryul Ravine, Kashmir, 174
Telford, S. R., Jr.: *book review* of Experimental malaria, 1608
Tera, F. *See* Albee, A. L., *et al.*
Teschke, F. *See* Wänke, H., *et al.*
Thackray, A.: *book review* of A biographical dictionary of scientists and World who's who in science, 363
Theilen, G. H. *See* Deinhardt, F., *et al.*
Theoretical physics and biology, M. MAROIS (Ed.), *book review* by E. C. Pollard, 272
Theory of anomalous water, A. L. C. Allen and P. A. Kollman, 1443
Thermal diffusivity and conductivity of lunar material, K. Horai *et al.*, 730
Thermal radiation properties and thermal conductivity of lunar material, R. C. Birkebak *et al.*, 724
Thermoluminescence of lunar samples, G. B. Dalrymple and R. R. Doell, 713
Thoday, J. M., and J. B. Gibson: Environmental and genetical contributions to class difference: a model experiment, 990
THOMAS, P. *See* VAN VOSS, S. F. G. H.
Thompson, R. C.: Uranium localization on hydroxyapatite by analysis of fission fragment tracks, 1494
Thorpe, A. N. *See* Doell, R. R., *et al.*
Threatened faculty pensions (*editorial*), D. Wolfle, 823
TIMOFEEFF-RESSOVSKY, N. V., *et al.*, Kratkii ocherk teorii evolyutsii (An outline of evolutionary concepts), *book review* of, 273
Titulaer, C. *See* Geake, J. E., *et al.*
Toksöz, N. *See* Latham, G. V., *et al.*
Tolansky, S., Interferometric examination of small glassy spherules and related objects in a 5-gram lunar dust sample, 742
Tolerance to polyinosinic • polycytidylic acid in NZB/NZW mice, A. D. Steinberg *et al.*, 870
Tolstoy, P., and L. I. Paradis: Early and Middle Preclassic culture in the basin of Mexico, 344
Total carbon and nitrogen abundances in lunar samples, C. B. Moore *et al.*, 495
Towe, K. M. *See* Mason, B., *et al.*
Toxoplasma gondii in cats: fecal stages identified as coccidian oocysts, J. K. Frenkel *et al.*, 893
Toxoplasma gondii: the oocyst, sporozoite, and infection of cultured cells, H. G. Sheffield and M. L. Melton, 892
Trace elements and accessory minerals in lunar samples, G. W. Reed, Jr., *et al.*, 501
Trace elements and radioactivity in lunar rocks: implications for meteorite infall, solar-wind flux, and formation conditions of moon, R. R. Keays *et al.*, 490
Trachtenberg, M. C. *See* Pollen, D. A.
Trachtenberg, M. C., and D. A. Pollen: Neuroglia: biophysical properties and physiologic function, 1248
Traill, R. J. *See* Douglas, J. A. V., *et al.*
Transformation of *Tetramitus* amebae into flagellates, C. Fulton, 1269
Transport and distribution of matter in cells of higher plants, K. MOTHES *et al.* (Eds.), *book review* by J. Dainty, 859
Transverse wave instability in a solid explosive, B. B. Dunne, 1124
Trapped solar wind noble gases, Kr^{81}/Kr exposure ages and K/Ar ages in Apollo 11 lunar material, P. Eberhardt *et al.*, 558
Tritium and argon radioactivities in lunar material, E. L. Fireman *et al.*, 566; *erratum*, 852, 1759
Triumph of the Darwinian method, The, M. T. GHISELIN, *book review* by G. G. Simpson, 1362
Troxler, R. F., *et al.*: Bile pigment formation in plants, 192
Truman, J. W., and L. M. Riddiford: Neuroendocrine control of ecdysis in silkmoths, 1624
Trumbore, F. A.: *book review* of Physicochemical principles of semiconductor doping, 276
Tsay, F.-D. *See* Manatt, S. L., *et al.*
Tundra biome program (*meeting report*), J. Brown, 1278
Tunneling in solids, C. B. DUKE, *book review* by J. A. Appelbaum, 1244
Tunneling phenomena in solids, E. BURSTEIN and S. LUNDQVIST (Eds.), *book review* by G. I. Rochlin, 1116
Turekian, K. K., and D. P. Kharkar: Neutron activation analysis of milligram quantities of lunar rocks and soils, 507
Turkevich, A. L. *See* Franzgrote, E. J., *et al.*
Turkevich, A. L., *et al.*: Alpha radioactivity of the lunar surface at the landing sites of Surveyors 5, 6, and 7, 1722
Turnbill, S. *See* Barghoorn, E. S., *et al.*
Turner, G.: Argon-40/argon-39 dating of lunar rock samples, 466; *erratum*, 1759
Turner, R. J.: *book review* of Social status and psychological disorder, 1363
TURPIN, R., and J. LE JEUNE, Human afflictions and chromosomal aberrations, *book review* of, 1118
Two-way benefits of defense research (*letter*), F. R. Eirich, 1198

U

UHLENBRUCK, G. *See* PROKOP, O.
Under the "liberal" umbrella (*letter*), G. W. Stupian, 1318
Underwater vision, S. M. Luria and J. A. S. Kinney, 1454
Underwood, H., and M. Menaker: Photoperiodically significant photoreception in sparrows: is the retina involved?, 298
Unified account of the variable effects of carbon dioxide on nerve cells, J. L. Walker, Jr., and A. M. Brown, 1502
Unilateral inhibition of sound-induced convulsions in mice, R. L. Collins, 1010
Updegrove, W. S. *See* Oró, J., *et al.*
Uranium localization on hydroxyapatite by analysis of fission fragment tracks, R. C. Thompson, 1494
Uranium-thorium-lead isotope relations in lunar materials, L. T. Silver, 468

Urey, H. C. *See* Marti, K., *et al. See also* Nagy, B., *et al.*
Urist, M. R. *See* Huggins, C. B.
Use of nonhuman primates in drug evaluation, H. VAGTBORG (Ed.), *book review* by M. H. Joffe, 859

V

VAGTBORG, H. (Ed.), Use of nonhuman primates in drug evaluation, *book review* of, 859
Vahouny, G. V., *et al.*: Preparation of beating heart cells from adult rats, 1616
Van Andel, T. H.: *book review* of Initial reports of the deep sea drilling project, 1713
van den Bosch, R.: Don't overlook Berkeley (*letter*), 1561
Van Geen-Peers, N. *See* Jedwab, J., *et al.*
Van Scott, E. J.: *book review* of Hair growth, 1118
VanStone, J. W.: *book review* of Hunters of the northern ice, 1365
van Tienhoven, A. *See* Eisner, T., *et al.*
Van Valen, L.: *book review* of Biometry and Statistical tables, 165
VAN VOSS, S. F. C. H., and P. THOMAS (Eds.), Medical thermography, *book review* of, 1714A
Vasconetto, C. *See* Ayala, G. F., *et al.*
Vaughan, R. W. *See* Manatt, S. L., *et al.*
Veeh, H. H., and J. Chappell: Astronomical theory of climatic change: support from New Guinea, 862
Vernon, M. J. *See* Compston, W., *et al.*
Vesell, E. S. *See* Wuntch, T., *et al.*
Vilcsek, E. *See* Wänke, H., *et al.*
Vilcsek, E. *See* Hintenberger, H., *et al.*
Virgo, D. *See* Fernández-Morán, H., *et al.*
Viscosity of lunar lavas, T. Murase and A. R. McBirney, 1491
Viscosity of the Atlantic Ocean bottom, C. H. Cramer, 1123
Viste, K. L., *et al.*: Dimethylpropynylbenzamides: a new group of herbicides, 280
Vogel, S. R. *See* Clarkson, F. E., *et al.*
Vogin, E. E. *See* Price, J. M., *et al.*
von Engelhardt, W., *et al.*: Shock metamorphism in lunar samples, 669
von Tigerstrom, R., and M. Smith: Oligodeoxyribonucleotides: chemical synthesis in anhydrous base, 1266
Voprosy metodologii v izuchenii organicheskogo mira (Problems of methodology in the study of evolution of the organic world), L. SH. DAVITASHVILI, *book review* by E. C. Olson, 273
VORONTSOV, N. N. *See* TIMOFEEFF-RESSOVSKY, N. V., *et al.*
Voshage, H. *See* Hintenberger, H., *et al. See also* Wänke, H., *et al.*
Vukovich, K. R. *See* Schapiro, S.

W

Wakabayashi, N. *See* Schwarz, M., *et al.*
Wakita, H. *See* Schmitt, R. A., *et al.*
Walker, C. *See* Geake, J. E., *et al.*
Walker, J. L., Jr., and A. M. Brown: Unified account of the variable effects of carbon dioxide on nerve cells, 1502
Walker, R. *See* Crozaz, G., *et al.*
Wall, B. J., *et al.*: Fluid transport: concentration of the intercellular compartment, 1497
Wall, P. D. *See* Dawson, G. D., *et al.*
Wallace, R. K.: Physiological effects of transcendental meditation, 1751
Walsh, J. (*News and Comment*): ambiguities for research in Senate's drug bill, 849; authorization for security checks, 1233; Bertrand Russell, 1110; civilian use for biological warfare facility under study, 1359; education and health funds, 355; foundations and tax reform bill, 1598; space program and biomedical research, 1469
Walsh, M. J. *See* Davis, V. E.
Walter, L. S. *See* Adler, I., *et al.*
Walter, R. *See* Douša, T., *et al.*
Wampler, E. J. *See* Alley, C. O., *et al.* (30 Jan.)
Wang, J. H.: Oxidative and photosynthetic phosphorylation mechanisms, 25
Wänke, H. *See* Hintenberger, H., *et al.*
Wänke, H., *et al.*: Major and trace elements and cosmic-ray produced radioisotopes in lunar samples, 523
Wanless, R. K., *et al.*: Age determinations and isotopic abundance measurements on lunar samples, 479
Warner, B. *See* Alley, C. O., *et al.* (23 Jan.)
Ware, N. G., and J. F. Lovering: Electron-microprobe analyses of phases in lunar samples, 517
Warren, N. *See* Schreiber, E., *et al.*
Warren, R. M.: Perceptual restoration of missing speech sounds, 392
Wasserburg, G. J. *See* Albee, A. L., *et al.*
Wasserman, A. O.: Polyploidy in the common tree toad *Hyla versicolor* Le Conte, 385
Wasson, J. T. *See* Baedecker, P. A.
Water, hydrogen, deuterium, carbon, carbon-13, and oxygen-18 content of selected lunar material, I. Friedman *et al.*, 538
Water in the earth's mantle: melting curves of basalt-water and basalt-water-carbon dioxide, R. E. T. Hill and A. L. Boettcher, 980
Waters, A. C. *See* Grine, D. R., *et al.*
Watkins, N. D., and A. Richardson: Rotation of the Iberian peninsula, 209
Watt, R. D. *See* Alvarez, L. W., *et al.* (30 Jan.)
Wax esters in marine copepods, R. F. Lee *et al.*, 1510
WEAVER, W., Scene of change, *book review* of, 856
Webb, M. S. W. *See* Smales, A. A., *et al.*
Webb, T. E. *See* Levitan, I. B.
Weber, G.: Enzyme regulation in mammalian tissues (*meeting report*), 1018
Weber, H. W. *See* Hintenberger, H., *et al.*
Webster, R. K. *See* Smales, A. A., *et al.*
WEDEPOHL, K. H. (Ed.), Handbook of geochemistry, *book review* of, 1115
Weeks, D. P. *See* Marcus, A., *et al.*
Weeks, R. A., *et al.*: Magnetic resonance properties of some lunar material, 704
Wegner, M. W. *See* Grossman, J. J., *et al.*
Wei, R. *See* Vahouny, G. V., *et al.*
Weiblen, P. W. *See* Roedder, E.
WEIDERMULLER, H. A. *See* MAHAUX, C.
Weill, D. F., *et al.*: Petrology of a fine-grained igneous rock from the Sea of Tranquillity, 635; *erratum*, 1759
Weinberg, A. M.: In defense of science, 141
WEINER, J. S., and J. A. LOURIE (Eds.), Human biology, *book review* of, 43
Weisskopf, V. F. (*editorial*): The need for basic research, 935
Weissman, S. M. *See* Ohe, K.
Weizenbaum, J. *See* Alker, H. R., Jr., *et al.*
Well-rounded egghead (*letter*), S. R. M. Reynolds, 238
Weller, J. *See* Klein, D. C., *et al.*
Wells, E. N. *See* Hapke, B. W., *et al.*
Wells, P. V.: Postglacial vegetational history of the Great Plains, 1574
Welton, T. A.: *book review* of Phase-space dynamics of particles, 1609
Wenger, A. *See* Delsemme, A. H.
Werthamer, N. R.: Aspen conference on quantum crystals (*meeting report*), 912
Wetherill, G. W. *See* Gopalan, K., *et al.*
Wetterberg, L., *et al.*: Harderian gland: an extraretinal photoreceptor influencing the pineal gland in neonatal rats, 884
Weyl, F. J.: Mina Rees, president-elect 1970 (*AAAS*), 1149
Whalen, R. E.: Crafty, ambitious authors (*letter*), 1318
Wharton, G. W.: Mites and commercial extracts of house dust, 1382
What price the lunar rocks? (*letter*), O. K. Garriott, 819
What's behind a label? (*letter*), I. Goldman, 237
WHITE, G. F., Strategies of American water management, *book review* of, 970
White, J. S., Jr. *See* Mason, B., *et al.*
White, P. *See* Troxler, R. F., *et al.*
White pine blister rust: simply inherited resistance in sugar pine, B. B. Kinloch, Jr., *et al.*, 193
Whitney, H. S., and S. H. Farris: Maxillary mycangium in the mountain pine beetle, 54
Wick, G. L. (*Research Topics*): gravitational waves, 1237; molecular biology, 157
Wickerham, L. J., *et al.*: Sexual reproduction in *Candida lipolytica*, 1141
Wiersma, C. A. G.: *book review* of Neurobiology of invertebrates, 1714
Wiggins, R. *See* Latham, G. V., *et al.*
Wigner, E. P.: Civil defense (*letter*), 1076
Wiik, H. B., and P. Ojanpera: Chemical analyses of lunar samples 10017, 10072, and 10084, 531
Wilczynski, J. J. *See* Eggers, H. J., *et al.*
Wilkening, L. *See* Arrhenius, G., *et al.*
Wilkins, M. H. F., *et al.*: Fourier analysis and the structure of DNA, 1693
Wilkinson, D. T. *See* Alley, C. O., *et al.* (30 Jan.)
Williams, E.: *book review of* Biogeography and ecology in South America, 275
Williams, F.: Physical and chemical aspects of ionization and excitation processes (*meeting report*), 1522
Williams, R. L. *See* Stanley, J. C., *et al.*
WILLIAMS, T. I., and S. WITHERS (Ed.), A biographical dictionary of scientists, *book review* of, 363
Williams, W. *See* Alley, C. O., *et al.* (23 Jan.)
Williston, J. S. *See* Jewett, D. L., *et al.*
Willoughby, T. V. *See* Coppens, P., *et al.*
Wilson, D. B. *See* Silvers, W. K., *et al.*
Wilson, J. D. *See* Smales, A. A., *et al.*
Wilson, W. H. *See* Robie, R. A., *et al.*
Windle, W. F.: Cerebral hemorrhage in relation to birth asphyxia, 1000
Winter, D. L. *See* Fields, H. L.
Wise, S. W., Jr.: Microarchitecture and deposition of gastropod nacre, 1486
Withers, S. *See* Williams, T. I.
Wittels, M. *See* Crozaz, G., *et al.*
Wlotzka, F. *See* Hintenberger, H., *et al. See also* Wänke, H., *et al.*
Woelfle, R. *See* Herr, W., *et al.*
Wogman, N. A. *See* Perkins, R. W., *et al.*
Wohlwill, J. F., and C. G. Shaw: Population crisis: go back to the country! (*letters*), 333
Wolf, C. *See* Oró, J., *et al.*
Wolf, E. D. *See* Kurtin, S. L., *et al.*
Wolf, L. L. *See* McNaughton, S. J.
Wolfle, D. (*editorials*): Chance, or human judgment?, 1201; Wolfle, D. (*editorials*): Concern for the next generation, 1441; Wolfle, D. (*editorials*): Selective Service and college enrollment, 129; Wolfle, D. (*editorials*): Threatened faculty pensions, 823; *book review* of Scene of change, 856; AAAS Council meeting, 1969 (*AAAS*), 1151
Wolfle, L. G. *See* Deinhardt, F., *et al.*
Wollast, R. *See* Jedwab, J., *et al.*
Wollin, G. *See* Ericson, D. B.
Wong, S. K. *See* Anderson, J. D., *et al.*
Wood, D. L. *See* Bedard, W. D., *et al.*
Wood, E. A.: New sites for cities and airports (*letter*), 1320
Woodford, F. P. *See* Good, R., *et al.*
Wones, D. *See* Horai, K., *et al. See also* Kanamori, H., *et al.*
Woo, C. C. *See* Duke, M. B., *et al.*
Wood, J. A., *et al.*: Lunar anorthosites, 602
Woods, A. H., and P. R. O'Bar: Absorption of proteins and peptides in the far ultraviolet, 179
Woods, R. T. *See* Fleischer, R. L., *et al.*
Woodward, R. B. *See* Hoffmann, R.
Woolum, D. *See* Crozaz, G., *et al.*
Wootton, J. F. *See* Fresco, J. R., *et al.*
Workman, P. L., and T. E. Reed: Intermixture and selection, 1388
World who's who in science, A. G. DEBUS *et al.* (Eds.), *book review* by A. Thackray, 363
Wrigley, R. *See* Quaide, W., *et al.*
Wuntch, T., *et al.*: Lactate dehydrogenase isozymes: kinetic properties at high enzyme concentrations, 63
Wyllie, P. J. *See* Anderson, A. T., Jr., *et al.*

X–Z

YABLOKOV, A. V. *See* TIMOFEEFF-RESSOVSKY, N. V., *et al.*
Yakowitz, H. *See* Heinrich, K. F. J., *et al.*
Yaniv, A. *See* Heymann, D., *et al.*
Yazolino, L. *See* Alvarez, L. W., *et al.* (6 Feb.)
Yen, T. F. *See* Rho, J. H., *et al.*
Yochelson, E. L.: North American paleontological convention (*meeting report*), 398
Yoeli, M. *See* Ferone, R., *et al.*
Young, A. T. *See* Hess, S. L., *et al.*
Young, G.: Dry lands and desalted water, 339
Young, M. *See* Nagy, B., *et al.*
Yundt, W. *See* Armer, P., *et al.*
Yuwiler, A. *See* Wetterberg, L., *et al.*
Zähringer, J. *See* Funkhouser, J. G., *et al. See also* Kirsten, T., *et al.*
Zavon, M. R., *See* Lowe, C. U., *et al.*
ZEMSKOV, V. S. *See* GLAZOV, V. M.
Zlatkis, A. *See* Oró, J., *et al.*
Zussman, J. *See* Bailey, J. C., *et al.*

SCIENCE

Index to Volume 168, April–June 1970

Philip H. Abelson, Editor

Published by the
American Association for the Advancement of Science
1515 Massachusetts Ave., NW, Washington, D.C. 20005
© 1970

No.	*Date of Issue*	*Pages*	*No.*	*Date of Issue*	*Pages*
3927	3 April	1–184	3934	22 May	885–1032
3928	10 April	185–286	3935	29 May	1033–1132
3929	17 April	287–412	3936	5 June	1133–1272
3930	24 April	413–512	3937	12 June	1273–1380
3931	1 May	513–620	3938	19 June	1381–1512
3932	8 May	621–768	3939	26 June	1513–1612
3933	15 May	769–884			

Names of authors of books reviewed are printed in SMALL CAPITALS.

A

Abelson, P. H. (*editorials*): The changing job market, 781; Dael Wolfle at AAAS, 1529; Death from heroin, 1289; Shortage of caviar, 199; Troubled times for academic science, 525
Abraham, F. F.: Orientation order of dipole molecules in the surface of embryonic droplets, 833
Academia in anarchy, J. M. BUCHANAN and N. E. DEVLETOGLOU, *book review* by J. D. Millett, 355
Acetabularia chloroplast DNA: electron microscopic visualization, B. R. Green and H. Burton, 981
Acetylcholine sensitivity of muscle fiber membranes: mechanism of regulation by motoneurons, D. M. Fambrough, 372
Acevedo, E. *See* Hsiao, T. C., *et al.*
Ackley, H. A., and C. O. Berg: Dissent without disruption: futility of militancy (*letters*), 1526
Adams, J. B. *See* McCord, T. B., *et al.*
Adenosine 3′,5′-monophosphate, adrenocorticotropic hormone, and adrenocortical cytosol protein synthesis, M. F. Grower and E. D. Bransome, Jr., 483
Adler, N. T., and S. R. Zoloth: Copulatory behavior can inhibit pregnancy in female rats, 1480
Adman, R., and D. A. Pious: Isoantigenic variants: isolation from human diploid cells in culture, 370
Advanced composite materials, T. M. Cornsweet, 433
Aedes aegypti: origin of a "new" chromosome from a double translocation heterozygote, P. T. McDonald and K. S. Rai, 1229
Aerial vision: unique adaptation in an intertidal fish, J. B. Graham and R. H. Rosenblatt, 586
Aflatoxin, L. A. GOLDBLATT (Ed.), *book review* by R. G. Owens, 1193
After Earth Day (*editorial*), D. Wolfle, 657
Ages of fossil penguins in New Zealand, G. G. Simpson, 361
Agnew, H. W., Jr. *See* Webb, W. B.
Agricultural pest control and the environment, G. W. Irving, Jr., 1419
Agurell, S. *See* Nilsson, I. M., *et al.*
Alarm response of *Diadema antillarum*, N. Snyder and H. Snyder, 276
Alaska: ground-level view (*letter*), P. Whitney, 64
Albritton, C.: *book review* of Toward a history of geology, 718
Alcohol aversion in the rat: behavioral assessment of noxious drug effects, M. Nachman *et al.*, 1244
Alkaloid from fire ant venom: identification and synthesis, J. G. MacConnell *et al.*, 840
Allen, J. L. *See* McAlack, R. F., *et al.*
Alpers, M. P. *See* Phillips, P. A., *et al.*
Alpert, D. *See* Seidel, R. J., *et al.*
Alverson, D. L., *et al.*: How much food from the sea?, 503
Amati, P.: Chloramphenicol: effect on DNA synthesis during phage development in *Escherichia coli*, 1226
American city planning since 1890, M. SCOTT, *book review* by H. Bain, 957
American Indian medicine, V. J. VOGEL, *book review* by J. H. Young, 730
Amphetamine: differentiation of *d* and *l* isomers of behavior involving brain norepinephrine or dopamine, K. M. Taylor and S. H. Snyder, 1487
Analecta medico-historica, No. 4, un médecin et biologiste, Casimir-Joseph Davaine (1812–1882), J. THÉODORIDÈS, *book review* by G. Rosen, 240
Anatomy of an expedition, H. W. MENARD, *book review* by E. Uchupi, 720
Anderson, D. M.: Dodder weevils in simultaneous association with parasitic plants and their hosts, 132
Anderson, O. L. *See* Schreiber, E.
Andrews, J. E. *See* Maxwell, A. E., *et al.*
Angell, C. A., and E. J. Sare: Vitreous water: identification and characterization, 280
Angino, E. E. *See* Smith, S. D.
Angino, E. E., *et al.*: Arsenic in detergents: possible danger and pollution hazard, 389
Antagonism by DDT of the effect of valinomycin on a synthetic membrane, B. D. Hilton and R. D. O'Brien, 841

Antarctic ice and interglacial high sea levels, J. H. Mercer and C. Emiliani, 1605

Antarctic Ice Sheet: stable isotope analyses of Byrd Station cores and interhemispheric climatic implications, S. Epstein *et al.*, 1570

Antarctic pelecypod faunal peculiarities, D. Nicol, 1248

Antennal receptors: reactions to female sex attractant in *Periplaneta americana*, J. Boeckh *et al.*, 589

Antibodies and immunity, G. J. V. NOSSAL, *book review* by C. B. Kimmel, 567

Antimycin A: stimulation of cell division and protein synthesis in *Tetrahymena pyriformis*, C. Elson *et al.*, 385

Aoki, K., and F. L. Siegel: Hyperphenylalaninemia: disaggregation of brain polyribosomes in young rats, 129

Apirion, D. *See* Kuwano, M., *et al.*

Apollo 13: cost of abortion (*letter*), D. P. de Sylva, 1287

Apollo 13 lunar heat flow experiment, M. G. Langseth, Jr., *et al.*, 211

Applegate, C. W. *See* Schildkraut, J. J., *et al.*

Approximations with special emphasis on spline functions, I. J. SCHOENBERG (Ed.), *book review* by J. Todd, 1196

ARMACOST, M. H., The politics of weapons innovation, *book review* of, 698

Armour, J. A. *See* Dawe, A. R., *et al.*

Arnold, E. *See* Epstein, S. S., *et al.*

Arrogance over clean air (*letter*), W. Lockeretz, 651

Arsenic in detergents: possible danger and pollution hazard, E. E. Angino *et al.*, 389

Ashby, W. R.: Chance favors the mind prepared (*letter*), 777

Aspiring eronaut, The (*letter*), R. A. Lewin, 653

Assessment of multiattribute preferences, R. L. Keeney, 1491

Asteroid Vesta: spectral reflectivity and compositional implications, T. B. McCord *et al.*, 1445

ASTWOOD, E. B. (Ed.), Recent progress in hormone research, *book review* of, 1335

Atkinson, D. E.: *book review* of Symmetry and function of biological systems at the macromolecular level, 723

Atkinson, P. W., and A. R. Gilby: Autoxidation of insect lipids: inhibition on the cuticle of the American cockroach, 992

Atmospheric oxygen in 1967 to 1970, L. Machta and E. Hughes, 1582

Atomic shield 1947/1952, R. G. HEWLETT and F. DUNCAN, *book review* by H. Fruchtbaum, 695

Atsatt, P. R.: *book review* of The biology of parasitic flowering plants, 1081

Attentuation on an earth-space path measured in the wavelength range of 8 to 14 micrometers, R. W. Wilson, 1456

Augenstein, L. G. *See* Smekal, E., *et al.*

Austin, I. G., and N. F. Mott: Metallic and nonmetallic behavior in transition metal oxides, 71

Australia antigen: distribution during Cohn ethanol fractionation of human plasma, D. D. Schroeder and M. M. Mozen, 1462

Australopithecine endocast (Taung specimen, 1924): a new volume determination, R. L. Holloway, 966

Automatic text analysis, G. Salton, 335

Autoxidation of insect lipids: inhibition on the cuticle of the American cockroach, P. W. Atkinson and A. R. Gilby, 992

Axelrod, D. *See* Trilling, D. M.

B

Bach, F. H.: Transplantation: pairing of donor and recipient, 1170

Backus, R. H. *See* Horn, M. H., *et al.*

Bacterial spore outgrowth: its regulation, J. N. Hansen *et al.*, 1291

BADASH, L. (Ed.), Rutherford and Boltwood, *book review* of, 736

Bain, H.: *book review* of American city planning since 1890, 957

Baker, R. G.: Pollen sequence from late Quaternary sediments in Yellowstone Park, 1449

Balbinder, E. *See* Callahan, R., III

Ball, G. G. *See* Gray, J. A.

Banks, E. *See* Loevinger, J.

Barchas, J. D.: *See* Ferguson, J., *et al. See also* Stolk, J. M., *et al.*

Bardis, P. D.: Grecian concept of entasis (*letter*), 917

BARENBOIM, G. M., *et al.*, Luminescence of biopolymers and cells, *book review* of, 460

Barghoorn, E. S. *See* Leo, R. F.

Barghusen, H. R., and J. A. Hopson: Dentary-squamosal joint and the origin of mammals, 573

Barker, I. K. *See* Stoltz, D. R.

BARNABY, C. F. (Ed.), Preventing the spread of nuclear weapons, *book review* of, 697

BARNABY, C. F., and A. BOSERUP (Eds.), Implications of anti-ballistic missile systems, *book review* of, 697

Barnes, I.: Metamorphic waters from the Pacific tectonic belt of the west coast of the United States, 973

BARNET, R. J., The economy of death, *book review* of, 698

Bar-Nun, A., *et al.*: Shock synthesis of amino acids in simulated primitive environments, 470

Bar-Nun, N. *See* Bar-Nun, A., *et al.*

Barrett, C. P. *See* Schofield, B. H., *et al.*

Barnett, R. J. *See* Reik, L., *et al.*

BARTH, T. F. W., Feldspars, *book review* of, 461

Basker, J. F. *See* Sarma, P. S., *et al.*

Bass, W. *See* Epstein, S. S., *et al.*

Bates, R. R. *See* Courtney, K. D., *et al.*

Batra, S. W. T., and G. E. Bohart: Brood care in halictid bees, 875

Batterman, B. W.: *book review* of Theory of x-ray and thermal-neutron scattering by real crystals, 566

Bauer, S. H. *See* Bar-Nun, A., *et al.*

Bauer, S. J.: *book review* of Introduction to ionospheric physics, 1336

Beall, M. L., Jr. *See* Nash, R. G.

Behunin, H. *See* Tidwell, W. D., *et al.*

Beisswenger, P. J., and R. G. Spiro: Human glomerular basement membrane: chemical alteration in diabetes mellitus, 596

Bell, W. H., and G. W. Swenson, Jr.: Society of ciphers (*letters*), 778

Bellugi, U. *See* Bronowski, J.

Benakis, A. *See* WASER, P. G., *et al.*

Benarde, M. A.: Conflicting pronouncements (*letter*), 67

Bender, P. L. *See* McVittie, G. C.

Benfey, O. T.: *book review* of The periodic system of chemical elements, 733

Benirschke, K. *See* Wurster, D. H.

Bennett, H. S., *et al.*: High-voltage electron microscopy (*meeting report*), 506

Berg, C. O. *See* Ackley, H. A.

Berg, G. R. *See* Klein, D. C., *et al.*

Berg, O. E., and J. A. M. McDonnell: Filamentary crystal growth associated with impact craters from hypervelocity microparticles, 820

Berger, M. *See* Dorfman, B., *et al.*

Berger, R. *See* Bucha, V., *et al. See also* MacNeish, R. S., *et al.*

Berger, R. L. *See* Everse, J., *et al.*

Berger, W. H., and F. L. Parker: Diversity of planktonic foraminifera in deep-sea sediments, 1345

Berkoff, C. E.: Synthetic juvenile hormone and "synthetic juvenile hormone," 1607

Berlin, R. D.: Specificities of transport systems and enzymes, 1539

Beroza, M. *See* Jones, R. L., *et al.*

Bersot, T. P. *See* Mahley, R. W., *et al.*

BERTOLINI, G., and A. COCHE (Eds.), Semiconductor detectors, *book review* of, 462

Bettelheim's essay on youth (*letter*), C. Süsskind, 653

Bewley, T. A., and C. H. Li: Primary structures of human pituitary growth hormone and sleep pituitary lactogenic hormone compared, 1361

Bhattacharyya, P., *et al.*: Colicin-tolerant mutants of *Escherichia coli*: resistance of membranes to colicin E1, 998

Bimolecular (black) lipid membranes: study of lipid-protein interactions, E. Smekal *et al.*, 1108

Biochemical differentiation during amphibian metamorphosis, P. P. Cohen, 533

Biochemical toxicology of insecticide action (*meeting report*), I. Yamamoto and R. D. O'Brien, 154

Biochemistry of alkaloids, T. ROBINSON, *book review* by J. W. Fairbairn, 814

Biological conservation, D. W. EHRENFELD, *book review* by W. H. Drury, 1333

Biological implications of the nuclear age, *book review* by J. Rotblat, 698

Biology editors' definition (*letter*), E. B. Cook, 1286

Biology of mosquito-borne disease, The, P. F. MATTINGLY, *book review* by W. R. Horsfall, 567

Biology of parasitic flowering plants, The, J. KUIJT, *book review* by P. R. Atsatt, 1081

Birth control for economic development?, C. W. F. Bock, 607

Bishop, Y. *See* Epstein, S. S., *et al.*

1, 3-Bis (*p*-chlorobenzylideneamino) gaunidine hydrochloride (robenzidene): new poultry anticoccidial agent, S. Kantor *et al.*, 373

Bitman, J. *et al.*: DDT-induced inhibition of avian shell gland carbonic anhydrase: a mechanism for thin eggshells, 594

Bitzer, D. L. *See* Seidel, R. J., *et al.*

Bladder tumorigenesis, D. R. Stoltz and I. K. Barker, 1121

BLAIR, G. W. S., Elementary rheology, *book review* of, 1194

Blood concentrations of acetaldehyde and ethanol in chronic alcoholics, E. Majchrowicz and J. H. Mendelson, 1100

Bloth, B. *See* Svehag, S.-E.

Blum, M. S. *See* MacConnell, J. G., *et al.*

Blumrich, J. F.: Design, 1551

Bly, D. D.: Gel permeation chromatography, 527

Board, F. A. *See* Nag, M., *et al.*

Bock, C. W. F.: Birth control for economic development?, 607

Boeckh, J., *et al.*: Antennal receptors: reactions to female sex attractant in *Periplaneta americana*, 589

Boffey, P. M. (*News and Comment*): accelerator at Batavia, Ill., 1071, 1185; Bevan named executive officer of AAAS, 1535; energy crisis and environmental issue, 1534; dissent spreads to Nobelists and industrial scientists, 1325; Hiroshima/Nagasaki, 679; Nader's raiders on the FDA, 349; NSF budget and House group reacts to data on plight of science, 95; recession in science: ex-advisors warn of long-term effects, 555

Boffey, P. M., and J. Walsh (*News and Comment*): study of TV violence, 949

Bohart, G. E. *See* Batra, S. W. T.

Bonatti, E., *See* Gomberg, D. N.

Bonatti, E., and H. Tazieff: Exposed guyot from the Afar Rift, Ethiopia, 1087

Boozer, E. L. *See* Suggs, J. E., *et al.*

Borcherding, J. W. *See* Everett, G. M.

Borsos, T. *See* Kronman, B. S., *et al.*

BOSERUP, A. *See* BARNABY, C. F.

BOTELHO, S. Y., *et al.*, Exocrine glands, *book review* of, 1443

Boudin, A., and S. Deutsch: Geochron-

ology: recent development in the lutetium-176/hafnium-176 dating method, 1219
Boulding, K. E.: *book review* of Technological change, 1442
Bowers, J. *See* Stallings, W. M., *et al.*
BOWERS, J. Z., Western medical pioneers in feudal Japan, *book review* of, 728
Bowman, M. C. *See* Jones, R. L., *et al.*
Boyce, R. E. *See* Fischer, A. G., *et al. See also* Maxwell, A. E., *et al.*
Brace, W. F., and J. D. Byerlee: California earthquakes: why only shallow focus?, 1573
Bradley, P. B. *See* Phillips, M. I., *et al.*
Bradykinin inhibition by butylated hydroxyanisole, L. P. Posati and M. J. Pallansch, 121
Brain mechanisms and vision: subcortical systems (*meeting report*), D. J. Ingle and G. E. Schneider, 1493
Brain norepinephrine: enhanced turnover after rubidium treatment, J. M. Stolk *et al.*, 501; *erratum*, 1192
Bransome, E. D., Jr. *See* Grower, M. F.
Branton, D. *See* Davy, J. G.
Braud, W. G.: Extinction in goldfish: facilitation by intracranial injection of RNA from brains of extinguished donors, 1234
Bray, J. R.: Solar activity index: validity supported by oxygen isotope dating, 571
Bredfeldt, J. *See* Angino, E. E., *et al.*
Brennan, D. G.: Strategic postures (*letter*), 778
Brewster, K., Jr. (*editorial*): The threat of impatience, 423
Brislin, R. *See* Schiff, W., *et al.*
Broecker, W. S.: Man's oxygen reserves, 1537
Bronowski, J., and U. Bellugi: Language, name, and concept, 669
Brood care in halictid bees, S. W. T. Batra and G. E. Bohart, 875
BROOKS, F. P. *See* BOTELHO, S. Y., *et al.*
BROTHWELL, D., and P. BROTHWELL, Food in antiquity, *book review* of, 706
BROTHWELL, P. *See* BROTHWELL, D.
Brown, D. D.: *book review* of Nuclear physiology and differentiation, 566
BROWN, L. R., Seeds of change, *book review* of, 690
Brown, T. M.: *book review* of Ideas of life and matter, 459
Brown, W. V. *See* Mahley, R. W., *et al.*
Bryan, G. T., *et al.*: Production of urinary bladder carcinomas in mice by sodium saccharin, 1238
Bucha, V., *et al.* : Geomagnetic intensity: changes during the past 3000 years in the Western Hemisphere, 111
BUCHANAN, J. M., and N. E. DEVLETOGLOU, Academia in anarchy, *book review* of, 355
Budinger, T. F., *et al.*: Frontal attack on radiation (*letters*), 315
Buettner-Janusch, J.: *book review* of The life of primates, 356
Bukry, D. *See* Fischer, A. G., *et al.*
Bulk isolation, in nonaqueous media, of nuclei from lyophilized cells, W. M. Kirsch *et al.*, 1592
Burbank, R. D., and G. R. Jones: Xenon hexafluoride: structure of a cubic phase at −80°C, 248
BURDZY, K., and P. KALLOS (Eds.), Pathogenesis and etiology of demyelinating diseases, *book review* of, 1335
BURHOP, E. H. S. *See* MASSEY, H. S. W., *et al.*
Burke, R. E., *et al.*: Catch property in single mammalian motor units, 122
BURNETT, G. M., and A. M. NORTH (Eds.), Transfer and storage of energy by molecules, *book review* of, 110
Burnham, C. W. *See* Lindsley, D. H.
BURNS, W., Noise and man, *book review* of, 1079
Burton, H. *See* Green, B. R.
Burton, R. L. *See* Jones, R. L., *et al.*
Buston, G. O., *et al.*: Pyrazole and induction of fatty liver by a single dose of ethanol, 1598
BUTTMANN, G., The shadow of the telescope, *book review* of, 731
BUTTS, R. E. (Ed.), William Whewell's theory of scientific method, *book review* of, 1195
Byerlee, J. D. *See* Brace, W. F.

C

Cabanac, M., and R. Duclaux: Obesity: absence of satiety aversion to sucrose, 496
Caccam, J. *See* Eylar, E. H., *et al.*
CAI: technological misconceptions (*letters*), R. J. Seidel *et al.*, 1397
California earthquakes: why only shallow focus?, W. F. Brace and J. D. Byerlee, 1573
Callahan, R., III and E. Balbinder: Tryptophan operon: structural gene mutation creating a "promoter" and leading to 5-methyltryptophan dependence, 1586
Callard, I. P.: *book review* of Progress in comparative endocrinology, 1443
Callaway, J.: *book review* of Topics in atomic collision theory, 241
Calorimetric detection of a membrane-lipid phase transition in living cells, J. C. Reinert and J. M. Steim, 1580
CALVIN, M., Chemical evolution, *book review* of, 814
Cambodian crisis: reason and emotion, The (*editorial*), C. E. Izard, 1157
Cambridge Philosophical Society, A. R. HALL, *book review* by D. J. Struik, 565
Camerman, A., and N. Camerman: Diphenylhydantoin and diazepam: molecular structure similarities and steric basis of anticonvulsant activity, 1457
Camerman, N. *See* Camerman, A.
Camin, J. H. *See* Moss, W. W.
Campbell, A.: *book review* of Politics and the social sciences, 108
Campus turmoil and problems (*letters*), L. P. Schacter *et al.*, 1151
Cannon, W. F.: *book review* of The shadow of the telescope, 731
Carbon-14 dating of iron, The, N. J. VAN DER MERWE, *book review* by R. Stuckenrath, Jr., 565
Carbon-13 and oxygen-18 in dinosaur, crocodile, and bird eggshells indicate environmental conditions, R. E. Folinsbee *et al.*, 1353
Carbon-13 in Black Sea waters and implications for the origin of hydrogen sulfide, W. G. Deuser, 1575
Carlson, P. S.: Induction and isolation of auxotrophic mutants in somatic cell cultures of *Nicotiana tabacum*, 487
Carlson, W. S.: Ice survey by the U.S. Coast Guard, 396
Carpenter, R. A.: Information for decisions in environmental policy, 1316
Carran, A. B., and L. L. Heston: Dialogue: schizophrenia (*letters*), 420
Carson, H. L.: Chromosome tracers of the origin of species, 1414
Carter, L. J. (*News and Comment*): academe enters congressional politics after Cambodia and Kent, 955; black activists at University of Michigan, 229; campaign General Motors, 452, 1077; contraceptive technology, 805; Earth Day, 558; environmental law, 1322; NAS again says no to Shockley, 685; NIH and NIMH scientists lobby to end the war, 1191; pollution ocean agencies proposed by Nixon, 1433
CASSEDY, J. H., Demography in early America, *book review* of, 730
Catalysis in chemistry and enzymology, W. P. JENCKS, *book review* by C. D. Gutsche, 1080
Cataracts produced in rats by yogurt, C. P. Richter and J. R. Duke, 1372
Catch property in single mammalian motor units, R. E. Burke *et al.*, 122
Catecholamine biosynthesis in brains of rats treated with morphine, D. H. Clouet and M. Ratner, 854
Cecil, H. C. *See* Bitman, J., *et al.*
Cells into organs, J. P. TRINKAUS, *book review* by A. Jacobson, 356
Cellular recognition, R. T. SMITH and R. A. GOOD (Eds.), *book review* by M. Edidin, 1336
Cerebral acid hydrolase activities: comparison in "quaking" and normal mice, D. J. Kurtz and J. N. Kanfer, 259
Cerny, J. *See* McAlack, R. F., *et al.*
Chan, P. C., *et al.*: Hydroxyurea: suppression of two-stage carcinogenesis in mouse skin, 130
Chance favors the mind prepared (*letter*), W. R. Ashby, 777
Changing dynamics in research and development, H. Thiemann, 1427
Changing job market, The (*editorial*), P. H. Abelson, 781
CHAPMAN, R. F., The insects, *book review* of, 1082
Chatelain, A., *et al.*: Radiation effects and oxygen vacancies in silicates, 570
Chemical composition of the lunar surface in a terra region near the crater Tycho, J. H. Patterson *et al.*, 825
Chemical defense of brood by a social wasp, R. L. Jeanne, 1465
Chemical evolution, M. CALVIN, *book review* by S. L. Miller, 814
Chemical individuality of lunar, meteoritic, and terrestrial silicate rocks, M. C. Ulbrich, 1375
Chemical inducers of oviposition for the corn earworm, *Heliothis zea* (Boddie), R. L. Jones *et al.*, 856
Chemical weathering of the silicate minerals, F. C. LOUGHNAN, *book review* by C. E. Weaver, 1567
Chien, S.: Shear dependence of effective cell volume as a detriment of blood viscosity, 977
Children of Frankenstein, The H. J. MULLER, *book review* by W. Madden, 687
Chiñas, B. L.: Women on college faculties (*letter*), 917
Chloramphenicol: effect on DNA synthesis during phage development in *Escherichia coli*, P. Amati, 1226
Chlorinated hydrocarbon insecticides: root uptake versus vapor contamination of soybean foliage, R. G. Nash and M. L. Beall, Jr., 1109
Chlorophyll derivatives in middle Eocene sediments, D. L. Dilcher *et al.*, 1447
Christian, C. L. *See* Phillips, P. E.
Christian, J. J.: Social subordination, population density, and mammalian evolution, 84
CHRISTIANSEN, W. N., and J. A. HÖGBOM, Radiotelescopes, *book review* of, 732
Chromosomal drift, a new phenomenon in plants, W. H. Lewis, 1115
Chromosomal localization of mouse satellite DNA, M. L. Pardue and J. G. Gall, 1356
Chromosome tracers of the origin of species, H. L. Carson, 1414
Chronic non-psychiatric hazards of drugs of abuse (*meeting report*), S. S. Epstein and J. Lederberg, 507
Churchill, W. H., Jr. *See* Kronman, B. S., *et al.*
Chute, J., Jr. *See* Langseth, M. G., Jr., *et al.*
Cigarette smoke: the effect of residue on mitochondrial structure, J. R. Kennedy and A. M. Elliott, 1097
Circadian clock in insect photoperiodism, D. S. Saunders, 601
Circadian rhythm of brain self-stimulation behavior, M. Terman and J. S. Terman, 1242

Civilizational process, The, D. RIBEIRO, *book review* by F. Hole, 1564
CLARK, R. C., and G. H. DERRICK, Mathematical methods in solid state and superfluid theory, *book review* of, 963
Clark, S. P., Jr. *See* Langseth, M. G., Jr., *et al.*
Clarke, B.: Darwinian evolution of proteins, 1009
Clausen, J. A.: *book review* of Mental health and social policy, 812
Clerks and craftsmen in China and the West, J. NEEDHAM, *book review* by L. White, Jr., 728
Clifton, H. E., *et al.*: Tektite 1, man-in-the-sea project: marine science program, 659
Climate of the free atmosphere, D. F. REX (Ed.), *book review* by J. Spar, 959
Clouet, D. H., and M. Ratner: Catecholamine biosynthesis in brains of rats treated with morphine, 854
Clutch size in birds: outcome of opposing predator and prey adaptations, R. E. Ricklefs, 599
COCHE, A. *See* BERTOLINI, G.
COCHRANE, W. W., The world food problem, *book review* of, 690
Coevolution of *Escherichia coli* and bacteriophages in chemostat culture, M. T. Horne, 992
Coggins, C .W., Jr., *et al.*: Lycopene accumulation induced by 2-(4-chlorophenylthio)-triethylamine hydrochloride, 1589
COHEN, D. M., and R. F. CRESSEY (Eds.), Natural history collections, *book review* of, 726
Cohen, H. *See* Ferguson, J., *et al.*
Cohen, P. P.: Biochemical differentiation during amphibian metamorphosis, 533
Cohen, Y. *See* WASER, P. G., *et al.*
Coincidence of climatic and faunal fluctuations in Pleistocene Bermuda, S. J. Gould, 572
Colbert, E. H.: *book review* of Hunting for dinosaurs, 719
COLBERT, E. H., Evolution of the vertebrates, *book review* of, 815
Colcemid sensitivity of fission yeast and the isolation of colcemid-resistant mutants, S. Lederberg and G. Stetten, 485
COLE, A. J. (Ed.), Numerical taxonomy, *book review* of, 961
COLE, F. R., The flies of western North America, *book review* of, 1334
Cole, W. E. *See* Weinberg, G. M.
Colicin-tolerant mutants of *Escherichia coli*: resistance of membranes to colicin E1, P. Bhattacharyya *et al.*, 998
Collet, R. A. *See* WASER, P. G., *et al.*
Comparative studies in kinship, J. GOODY, *book review* by H. A. Selby, 238
Conant, J. B.: Theodore William Richards and the periodic table, 425
CONANT, J. B., My several lives, *book review* of, 688
Cones of living amphibian eye: selective staining, A. M. Laties and P. A. Liebman, 1475
Conflicting pronouncements (*letter*), M. A. Benarde, 67
Connelly, W. (*News and Comment*): oceanography: a "wet NASA," will Nixon take the plunge?, 98; Senator William Proxmire, 1435
Cook, E. B.: Biology editors' definition (*letter*), 1286
Copulatory behavior can inhibit pregnancy in female rats, N. T. Adler and S. R. Zoloth, 1480
Cornsweet, T. M.: Advanced composite materials, 433
Corser, G. A. *See* Lester, G., *et al.*
Cosmides, G. J.: Pharmacology-toxicology (*meeting report*), 1013
Courtney, K. D., *et al.*: Teratogenic evaluation of 2,4,5-T, 864
Covalent polymers of water, C. T. O'Konski, 1089
Cover pictures: adult cat (10 Apr.); Bibliothèque Nationale, Paris (8 May); a child separates himself from his mother (3 Apr.); conjoined pair of leopard frogs (15 May); defoliated forest trees along Vietnam-Cambodia border (1 May); electron wave patterns (22 May); fire control of chaparral (24 Apr.); George Washington Bridge (26 June); Hawaiian fly, *Drosophila grimshawi* (19 June); interference fringes (5 June); River Styx (12 June); spring beauty *Claytonia virginica* L. (29 May); tumulus at New Grange, Ireland (17 Apr.)
Cowan, T. M.: Megalithic rings: their design construction, 321
Crewe, A. V., *et al.*: Visibility of single atoms, 1338
Cronyn, W. M.: Interstellar scattering of pulsar radiation and its effect on the spectrum of NP0532, 1453
Cross-reactions between streptococcal M proteins and human transplantation antigens, A. A. Hirata and P. I. Terasaki, 1095
Crow, J. F.: *book review* of The mathematics of heredity, 721
Crowcroft, P.: *book review* of International zoo yearbook, Man and animal in the zoo, and The world's a zoo, 725
Crustal layer of seismic velocity 6.9 to 7.6 kilometers per second under the deep oceans, G. L. Maynard, 120
CRUTCHFIELD, J. A., and G. PONTECORVO, The Pacific salmon fisheries, *book review* of, 737
Cry alarm! (*editorial*), D. Wolfle, 1045
Cryobiology: the freezing of biological systems, P. Mazur, 939
Curley, A. *See* Suggs, J. E., *et al.*
Cushing, C. E. *See* Rose, F. L.
Cutter, E. G. *See* Falk, R. H., *et al.*
Cybernetics in city hall, E. S. Savas, 1066
Cyclamate acceptance, M. W. Wagner, 1605
Cyclic adenosine monophosphate: andromimetic action on seminal vesicular enzymes, R. L. Singhal *et al.*, 261
Cytoplasmic extraction: polyribosomes and heterogeneous ribonucleoproteins without associated DNA, D. Fromson and M. Nemer, 266

D

Dael Wolfle at AAAS (*editorial*), P. H. Abelson, 1529
Dagnillo, D. M. *See* D'Antonio, L. E., *et al.*
Dainton, F. S.: *book review* of Transfer and storage of energy by molecules, 110
Daly, H. V.: *book review* of The insects, 1082
DALY, I. D., and C. HEBB, Pulmonary and bronchial vascular systems, *book review* of, 461
D'Antonio, L. E., *et al.*: Malaria resistance: artificial induction with a partially purified plasmodial fraction, 1117
DARLINGTON, C. D., The evolution of man and society, *book review* of, 1332
Darwinian evolution of proteins, B. Clarke, 1009
DAUMAS, A. M. (Ed.), A history of technology and invention, *book review* of, 726
Davenport, R. K., and C. M. Rogers: Intermodal equivalence of stimuli in apes, 279
Daves, S. *See* Shelton, E., *et al.*
Davis, B. D.: *book review* of The genetics of bacteria and their viruses, 960
Davy, J. G., and D. Branton: Subliming ice surfaces: freeze-etch electron microscopy, 1216
Dawe, A. R., *et al.*: Summer hibernation induced by cryogenically preserved blood "trigger," 497
Dawn of Western science in Japan, G. SUGITA, *book review* by I. Veith, 728
Davis, W. J.: Motoneuron morphology and synaptic contacts: determination by intracellular dye injection, 1358
Dayhoff, M. O. *See* McLaughlin, P. J.
p,p'-DDT: effect on calcium metabolism and concentration of estradiol in the blood, D. B. Peakall, 592
DDT-induced inhibition of avian shell gland carbonic anhydrase: a mechanism for thin eggshells, J. Bitman *et al.*, 594
DDT metabolism: oxidation of the metabolite 2,2-bis(*p*-chlorophenyl)ethanol by alcohol dehydrogenase, J. E. Suggs *et al.*, 582
DDT observations (*letters*), A. M. Reiner and P. F. Torrence, 522
Death from heroin (*editorial*), P. H. Abelson, 1289
DE BEER, G., Streams of culture, *book review* of, 717
Dedijer, S.: The R & D depression in the United States, 344
Deep sea drilling in the South Atlantic, A. E. Maxwell *et al.*, 1047
Defect in DNA synthesis in skin of patients with xeroderma pigmentosum demonstrated in vivo, J. H. Epstein *et al.*, 1477
Defendi, V. *See* Häyry, P.
Defense of quick publication (*letter*), M. I. Kurke, 1041
Definitions of a university (*letter*), W. Stephenson, 1041
Degens, E. T., *et al.*: Fossil membranes and cell wall fragments from a 7000-year-old Black Sea sediment, 1207
DEGENS, E. T., and D. A. ROSS (Eds.), Hot brines and recent heavy metal deposits in the Red Sea, *book review* of, 1442
DEGÉRANDO, J.-M., The observation of savage peoples, *book review* of, 107
Delbrück, M.: A physicist's renewed look at biology: twenty years later, 1312
Dement, W. *See* Ferguson, J., *et al.*
Demography in early America, J. H. CASSEDY, *book review* by J. Duffy, 730
Dentary-squamosal joint and the origin of mammals, H. R. Barghusen and J. A. Hopson, 573
Deprit, A., *et al.*: Lunar ephemeris: Delaunay's theory revisited, 1569
DERRICK, G. H. *See* CLARK, R. C.
Design, J. F. Blumrich, 1551
de Sylva, D. P.: Apollo 13: cost of abortion (*letter*), 1287
Deterioration of teaching (*letter*), A. L. Ferriss, 1286
de Terra, N.: Reporting on feminism (*letter*), 420
Deuser, W. G.: Carbon-13 in Black Sea waters and implications for the origin of hydrogen sulfide, 1575
Deutsch, D. D.: Tones and numbers: specificity of interference in immediate memory, 1604
Deutsch, S. *See* Boudin, A.
de Vaucouleurs, G.: Postscript (*letter*), 917
Development of the functions of the small intestine in mammals and man, O. KOLDOVSKY, *book review* by F. Moog, 109
DEVLETOGLOU, N. E. *See* BUCHANAN, J. M.
Dialogue: schizophrenia (*letters*), A. B. Carran and L. L. Heston, 420
DICKINSON, R. E., The makers of modern geography, *book review* of, 715
Dickinson, W. R.: Global tectonics (*meeting report*), 1250
Dietz, E. D. *See* Green, J., *et al.*
Differential isotopic fractionation in benthic Foraminifera and paleotemperatures reassessed, J. C. Duplessy *et al.*, 250

Dilcher, D. L., *et al.*: Chlorophyll derivatives in middle Eocene sediments, 1447
DIMBLEBY, G. W. *See* UCKO, P. J.
Diphenylhydantoin and diazepam: molecular structure similarities and steric basis of anticonvulsant activity, A. Camerman and N. Camerman, 1457
Di Salvo, F. J. *See* Gamble, F. R., *et al.*
Disintegration of charged liquid jets: results with isopropyl alcohol, A. L. Huebner, 118
Dissent without disruption: futility of militancy (*letters*), H. A. Ackley and C. O. Berg, 1526
Distortions of apparent velocity: a new optical illusion, J. T. Enright, 464
Diversity of planktonic foraminifera in deep-sea sediments, W. H. Berger and F. L. Parker, 1345
DNA synthesis during yeast sporulation: genetic control of an early developmental event, R. Roth and K. Lusnak, 493
Dodder weevils in simultaneous association with parasitic plants and their hosts, D. M. Anderson, 132
Dodge, M.: Fire control of chaparral (*letter*), 420
DOMANSKII, A. N. *See* BARENBOIM, G. M., *et al.*
Domestication and exploitation of plants and animals, The, P. J. UCKO and G. W. DIMBLEBY (Eds.), *book review* by E. Isaac, 706
L-Dopa: effect on concentrations of dopamine, norepinephrine, and serotonin in brains of mice, G. M. Everett and J. W. Borcherding, 849
Dorfman, B., *et al.*: Partial reversion in yeast: genetic evidence for a new type of bifunctional protein, 1482
Doty, S. B. *See* Schofield, B. H., *et al.*
Douglas, R. G. *See* Fischer, A. G., *et al.*
Douthit, H. A. *See* Feinsod, F. M.
Drake, E. M. *See* Langseth, M. G., Jr., *et al.*
Drewes, H. R. *See* Foltz, R. L., *et al.*
Driscoll, S. G. *See* Espinosa de los Monteros M., A., *et al.*
Drucker, P.: *book review* of The ethnography of Franz Boas, 704
Drug deceptions (*letter*), S. Krippner, 654
Drury, R. E. *See* Milborrow, B. V.
Drury, W. H.: *book review* of Biological conservation, 1333
Duclaux, R. *See* Cabanac, M.
Duffy, J.: *book review* of Demography in early America, 730
Duke, J. R. *See* Richter, C. P.
DUMONT, R., and B. ROSIER, The hungry future, *book review* of, 690
DUNCAN, F. *See* HEWLETT, R. G.
Duntze, W., *et al.*: *Saccharomyces cerevisiae*: a diffusible sex factor, 1472
Duplessy, J. C., *et al.*: Differential isotopic fractionation in benthic Foraminifera and paleotemperatures reassessed, 250
Dwyer, P. D.: Social organization in the bat *Myotis adversus*, 1006
Dying with dignity (*editorial*), D. Wolfle, 1403
Dynamic zoogeography, M. D. F. UDVARDY, *book review* by E. O. Wilson, 1193

E

EAKIN, E. A., *See* WAGNER, R. P.
Eakin, M. A. *See* Kupchan, S. M., *et al.*
Earley, E. M. *See* Volpe, E. P.
Earth tides, global heat flow, and tectonics, H. R. Shaw, 1084
Earth's crust and upper mantle, The, P. J. HART (Ed.), *book review* by T. F. Gaskell, 719
Eckerman, C. O. *See* Rheingold, H. L.
Ecological effects of the war in Vietnam, G. O. Orians and E. W. Pfeiffer, 544
Economou, T. E. *See* Patterson, J. H., *et al.*
Economy of death, The, R. J. BARNET, *book review* by H. L. Nieburg, 698
Ecosystem concept in natural resource management, G. M. VAN DYNE (Ed.), *book review* by K. E. F. Watt, 1079
Edidin, M: *book review* of Cellular recognition, 1336
Editorials: After Earth Day, 657; The Cambodian crisis: reason and emotion, 1157; The changing job market, 781; Cry alarm!, 1045; Dael Wolfle at AAAS, 1529; Death from heroin, 1289; Dying with dignity, 1403; The 1972–75 budgets, 69; Overeducation, 319; Shortage of caviar, 199; The threat of impatience, 423; Troubled times for academic science, 525; The wrong top priority, 921
Effect of the draft on graduate physics education (*letter*), W. E. Meyerhof, 918
Effects of pollution on the structure and physiology of ecosystems, G. M. Woodwell, 429
Egg fanciers (*letters*), W. D. English *et al.*, 196
Eggum, B. O. *See* Munck, L., *et al.*
EHRENFELD, D. W., Biological conservation, *book review* of, 1333
Ehrenreich, H.: *book review* of The physics of metals, 237
EIRICH, F. R. *See* MATIJEVIĆ, E.
Electronic and ionic impact phenomena, H. S. W. MASSEY *et al.*, *book review* by M. Mittleman, 462
Elementary particle theory, N. SVARTHOLM (Ed.), *book review* by R. Jackiw, 1196
Elementary rheology, G. W. S. BLAIR, *book review* by M. H. Weissman, 1194
Elevation of aortic proline hydroxylase: a biochemical defect in experimental arteriosclerosis, G. C. Fuller and R. O. Langner, 987
Eliasson, M. *See* Phillips M. I., *et al.*
Elliott, A. M. *See* Kennedy, J. R.
Elson, C., *et al.*: Antimycin A: stimulation of cell division and protein synthesis in *tetrahymena pyriformis*, 385
Emergence of man, The, J. E. PFEIFFER, *book review* by D. S. Sade, 701
Emery, A. R.: *Sublimnos*: "Volkswagen" of underwater habitats (*letter*), 62
Emiliani, C.: Pleistocene paleotemperatures, 822. *See also* Mercer, J. H.
Employment status of recent recipients of the doctorate, Office of Scientific Personnel, National Research Council, 930
Encapsidation of free host DNA by simian virus 40: a simian virus 40 pseudovirus, D. M. Trilling and D. Axelrod, 268
Endocrinology and human behavior, R. P. MICHAEL (Ed.), *book review* by C. W. Lloyd, 109
Endotoxin: stimulation of bone resorption in tissue culture, E. Hausmann *et al.*, 862
Engel, W. K., and H. Meltzer: Histochemical abnormalities of skeletal muscle in patients with acute psychoses, 273
English, W. D., *et al.*: Egg fanciers (*letters*), 196
ENGSTRÖM, A., and B. STRANDBERG (Eds.), Symmetry and function of biological systems at the macromolecular level, *book review* of, 723
Enright, J. T.: Distortions of apparent velocity: a new optical illusion, 464
Enzymes activated by monovalent cations, C. H. Suelter, 789
Epstein, J. H., *et al.*: Defect in DNA synthesis in skin of patients with xeroderma pigmentosum demonstrated in vivo, 1477
Epstein, S., *et al.*: Antarctic Ice Sheet: stable isotope analyses of Byrd Station cores and interhemispheric climatic implications, 1570
Epstein, S. S., and J. Lederberg: Chronic non-psychiatric hazards of drugs of abuse (*meeting report*), 507
Epstein, S. S., *et al.*: Mutagenicity of trimethylphosphate in mice, 584
Epstein, W. L. *See* Epstein, J. H., *et al.*
Equilibrium density-gradient procedure for selection of synchronous cells from asynchronous cultures, T. O. Sitz *et al.*, 1231
Errata: for Appointments in News and Comment (1 May, p. 561), 1192; for H. Fan and S. Penman (3 Apr., p. 35), 956; for J. K. Frenkel *et al.* [**167**, 893 (1970)], 353; for S. J. McNaughton and L. L. Wolf [**167**, 131 (1970)], 455; for A. Phillips *et al.* [**166**, 903 (1969)], 353; for J. A. Rojas-Ramirez and E. S. Tauber [**167**, 1754 (1970)], 956; for J. M. Stolk *et al.* (24 Apr., p. 501), 1192
Ertürk, E. *See* Bryan, G. T., *et al.*
Espinosa de los Monteros M., A., *et al.*: Insulin release from isolated human fetal pancreatic islets, 1111
Essays in the history of mechanics, C. TRUESDELL, *book review* by J. L. Synge, 354
Ethnography of Franz Boas, The, R. P. ROHNER (Ed.), *book review* by P. Drucker, 704
Etzioni, A. (*editorial*): The wrong top priority, 921
Eukaryotes versus prokaryotes: an estimate of evolutionary distance, P. J. McLaughlin and M. O. Dayhoff, 1469
EVANS, L. T. (Ed.), The induction of flowering, *book review* of, 357
Everett, G. M., and J. W. Borcherding: L-Dopa: effect on concentrations of dopamine, norepinephrine, and serotonin in brains of mice, 849
Everse, J., *et al.*: Physiological concentrations of lactate dehydrogenases and substrate inhibition, 1236
Evolution and the genetics of populations, S. WRIGHT, *book review* by W. J. Ewens, 722
Evolution of man and society, The, C. D. DARLINGTON, *book review* by G. Hardin, 1332
Evolution of photosynthesis, The, J. M. Olson, 438
Evolution of the vertebrates, E. H. COLBERT, *book review* by C. G. Gazin, 815
Ewens, W. J.: *book review* of Evolution and the genetics of populations, 722
EWENS, W. J., Population genetics, *book review* of, 565
Ewing, M. *See* Kuo, J. T., *et al.*
Exocrine glands, S. Y. BOTELHO *et al.*: (Eds.), *book review* by W. Montagna, 1443
Experimental allergic encephalomyelitis: synthesis of disease-inducing site of the basic protein, E. H. Eylar *et al.*, 1220
Exposed guyot from the Afar Rift, Ethiopia, E. Bonatti and H. Tazieff, 1087
Extinction in goldfish: facilitation by intracranial injection of RNA from brains of extinguished donors, W. G. Braud, 1234
Extraoptic celestial orientation in the southern cricket frog *Acris gryllus*, D. H. Taylor and D. E. Ferguson, 390
Eylar, E. H., *et al.*: Experimental allergic encephalomyelitis: synthesis of disease-inducing site of the basic protein, 1220

F

Fairbairn, J. W.: *book review* of The biochemistry of alkaloids, 814
Fairbridge, R. W.: South Pole reaches the Sahara (*meeting report*), 878
Fales, H. M. *See* MacConnell, J. G., *et al.*
Falk, H. L. *See* Courtney, K. D., *et al.*
Falk, R. E. *See* Zabriskie, J. B., *et al.*
Falk, R. H., *et al.*: Scanning electron microscopy of developing plant organs, 1471
Fambrough, D. M.: Acetylcholine sensitivity of muscle fiber membranes: mech-

anism of regulation by motoneurons, 372
Fan, H., and S. Penman: Mitochondrial RNA synthesis during mitosis, 135; *erratum*, 956
Fasman, G. D.: *book review* of Optical rotatory dispersion of proteins and other macromolecules, 962
Fayer, R.: Sarocystis: development in cultured avian and mammalian cells, 1104
Feinsod, F. M., and H. A. Douthit: Ribosomes from spores of *Baccillus cereus* T, 991
Feldspars, T. F. W. BARTH, *book review* by T. L. Wright, 461
Feline leukemia and sarcoma viruses: susceptibility of human cells to infection, P. S. Sarma *et al.*, 1098
Fentiman, A. F., Jr. *See* Foltz, R. L., *et al.*
Ferguson, D. E. *See* Taylor, D. H.
Ferguson, E. S.: *book review* of A history of technology and invention, 726
Ferguson, J., *et al.*: "Hypersexuality" and behavioral changes in cats caused by administration of *p*-chlorophenylalanine, 499
Ferriss, A. L.: Deterioration of teaching (*letter*), 1286
Fessler, D. C. *See* Kupchan, S. M., *et al.*
Few, A. A.: Lightning and the new-generation aircraft, 1011
Figge, F. H. J. *See* Schofield, B. H., *et al.*
Filamentary crystal growth associated with impact craters from hypervelocity microparticles, O. E. Berg and J. A. M. McDonnell, 820
Fine, B. J. *See* Schacter, L. P., *et al.*
Fire control of chaparral (*letter*), M. Dodge, 420
Fischer, A. G., *et al.*: Geological history of the western North Pacific, 1210
Fish physiology, W. S. HOAR and D. J. RANDALL (Eds.), *book review* by M. S. Gordon, 356
FISHMAN, A. P., and H. H. HECHT (Eds.), The pulmonary circulation and interstitial space, *book review* of, 461
Fission track ages and ages of deposition of deep-sea microtektites, W. Gentner *et al.*, 359
Fixation produced by conflict, E. B. Karsh, 873
Fjeld, A.: Mosaic mutants: absence in a eucaryotic organism, 843
FLANNERY, K. V. *See* HOLE, F., *et al.*
Flare identification associated with coronal disturbances, K. H. Schatten, 395
Flies of western North America, The, F. R. COLE, *book review* by J. L. Laffoon, 1334
Floating gobs of oil (*letter*), F. R. Fosberg, 917
Flory, D. A. *See* Weber, J. N., *et al.*
Folinsbee, R. E., *et al.*: Carbon-13 and oxygen-18 in dinosaur, crocodile, and bird eggshells indicate environmental conditions, 1353
Foltz, R. L., *et al.*: Metabolite of (−)-trans-Δ^8-tetrahydrocannabinol: identification and synthesis, 844
Food-borne toxic microorganisms (*meeting report*), C. Lamanna 167
Food in antiquity, D. BROTHWELL and P. BROTHWELL, *book review* by E. Isaac, 706
Ford, H. R. *See* Patterson, R. S., *et al.*
FORESTER, J. W., Urban dynamics, *book review* of, 693
Forgetting: trace erosion or retrieval failure?, R. M. Shiffrin, 1601
Formation flight of birds, P. B. S. Lissaman and C. A. Shollenberger, 1003
Formation of virus-like particles by bone cells in mice with a high incidence of spontaneous leukemia, B. H. Schofield *et al.*, 588
Fosberg, F. R.: Floating gobs of oil (*letter*), 917
Fossil membranes and cell wall fragments from a 7000-year-old Black Sea sediment, E. T. Degens *et al.*, 1207
FOULDS, L., Neoplastic development, *book review* of, 106
Foundations: withering or growing? (*letter*), F. L. Jacquette, 1041
Fox, R. M., *et al.*: Orotidinuria induced by allopurinol, 861
Frankham, R.: *book review* of Population genetics in animal breeding, 1566
Franzgrote, E. J. *See* Patterson, J. H., *et al.*
Frequency-specific relation between hippocampal theta rhythm, behavior, and amobarbital action, J. A. Gray and G. G. Ball, 1246
Freund, G.: Impairment of shock avoidance learning after long-term alcohol ingestion in mice, 1599
Friedman, H. *See* McAlack, R. F., *et al.*
Fries, G. F. *See* Bitman, J., *et al.*
FRITH, H. J., and J. H. CALABY, Kangaroos, *book review* of, 1567
Fritz, P. *See* Folinsbee, R. E., *et al.*
Fromson, D., and M. Nemer: Cytoplasmic extraction: polyribosomes and heterogeneous ribonucleoproteins without associated DNA, 266
Frontal attack on radiation (*letters*), T. F. Budinger *et al.*, 315
Fruchtbaum, H.: *book review* of Atomic shield, 1947/1952, 695
Frustrations of misleading (*letter*), D. M. Prescott, 1285
Fu, R. C. *See* D'Antonio, L. E., *et al.*
Fukuyama, K. *See* Epstein, J. H., *et al.*
Fuller, G. C., and R. O. Langner: Elevation of aortic proline hydroxylase: a biochemical defect in experimental arteriosclerosis, 987
Future prospects for physical oceanography, H. Stommel, 1531

G

Gabrielsen, T. O. *See* Taren, J. A.
Gainey, M. *See* Kirsch, W. M., *et al.*
Gall, J. G. *See* Pardue, M. L.
Galle, O. K. *See* Angino, E. E., *et al.*
Galston, A. W. *See* Newton, M., *et al.*
Gamble, F. R., *et al.*: Superconductivity in layered structure organometallic crystals, 568
Gamow, R. I. *See* Ortega, J. K. E.
Ganges Plain: irrigation potential (*letter*), H. E. Thomas, 1042
Garner, W. R.: *book review* of perceptual learning and development, 958
GARRIOTT, O. K. *See* RISHBETH, H.
Garrison, R. E.: *See* Fischer, A. G., *et al.*
Gaskell, T. F.: *book review* of The earth's crust and upper mantle, 719
Gaylor, D. W. *See* Courtney, K. D., *et al.*
Gazin, C. L.: *book review* of Evolution of the vertebrates and The pattern of vertebrate evolution, 815
Geballe, T. H. *See* Gamble, F. R., *et al.*
Gel permeation chromatography, D. D. Bly, 527
Geller, E. *See* Wetterberg, L., *et al.*
GELTMAN, S., Topics in atomic collision theory, *book review* of, 241
Gene for improved nutritional value in barley seed protein, L. Munck *et al.*, 985
Genel, M. *See* Hummeler, K., *et al.*
General theory of population, A. SAUVY, *book review* by E. van de Walle, 691
Genetic load, B. WALLACE, *book review* by R. Milkman, 723
Genetics of bacteria and their viruses, The, W. HAYES, *book review* by B. D. Davis, 960
Gentner, W., *et al.*: Fission track ages and ages of deposition of deep-sea microtektites, 359
Gentry, R. C.: Hurricane Debbie modification experiments, August 1969, 473
Geochronology: recent development in the lutetium-176/hafnium-176 dating method, A. Boudin and S. Deutsch, 1219
Geological history of the western North Pacific, A. G. Fischer *et al.*, 1210
Geomagnetic intensity: changes during the past 3000 years in the Western Hemisphere, V. Bucha *et al.*, 111
Geschwind, N.: Intermodal equivalence of stimuli in apes, 1249
Ghiradella, H.: Predicting ovulation—precisely (*letter*), 1155
Giacobbe, T. J. *See* Kupchan, S. M., *et al.*
GIBSON, E. J., Principles of perceptual learning and development, *book review* of, 958
Gifford, E. M., Jr. *See* Falk, R. H., *et al.*
GILBODY, H. B. *See* MASSEY, H. S. W., *et al.*
Gilby, A. R. *See* Atkinson, P. W.
Gilden, R. V. *See* Oroszlan, S. *See also* Sarma, P. S., *et al.*
Gillespie, H. K. *See* Melges, F. T., *et al.*
GINZBERG, E., Men, money, and medicine, *book review* of, 1563
Glass, B. P. *See* Gentner, W., *et al.*
Glasson, B. *See* WASER, P. G., *et al.*
Glickstein, M., and M. Millodot: Retinoscopy and eye size, 605
Global tectonics (*meeting report*), W. R. Dickinson, 1250
GLOOR, P. (Ed.), Hans Berger on the electroencephalogram of man, *book review* of, 562
L-glutamic acid decarboxylase: a new type in glial cells and human brain gliomas, B. Haber *et al.*, 598
Gold, T. *See* Green, J., *et al.*
Goldberger, L.: *book review* of Sensory deprivation, 709
GOLDBLATT, L. A. (Ed.), Aflatoxin, *book review* of, 1193
Goldfinger, B. A. *See* Dorfman, B., *et al.*
Goldhaber, S. Z. (*News and Comment*): HEW decentralizers exempt research, 1557
Goldman, A. *See* Chan, P. C., *et al.*
Goldsmith, N. F.: Women in science: symposium and job mart (*meeting report*), 1124
Goldstein, R. M.: Mercury: surface features observed during radar studies, 467
Goldstein, S. *See* Dorfman, B., *et al.*
Golub, A. M., *et al.*: Incubation effects in behavior induction in rats, 392
Gomberg, D. N., and E. Bonatti: High-magnesian calcite: leaching of magnesium in the deep sea, 1451
Goodman, R. E.: *book review* of Landslides and their control, 959
GOODY, J., Comparative studies in kinship, *book review* of, 238
Goodyear, C. P.: Terrestrial and aquatic orientation in the starhead topminnow, *Fundulus notti*, 603
Gordon, M. S.: *book review* of Fish physiology, 356
Gorini, L.: Second thoughts on Shapiro's defection (*letter*), 1285
Gottlieb, P., *et al.*: Lunar gravity over large craters from Apollo 12 tracking data, 477
Gould, S. J.: Coincidence of climatic and faunal fluctuations in Pleistocene Bermuda, 572; *book review* of Streams of culture, 717
Gouras, P.: Trichromatic mechanisms in single cortical neurons, 489
Gow, A. J. *See* Epstein, S., *et al.*
Graham, J. B., and R. H. Rosenblatt: Aerial vision: unique adaptation in an intertidal fish, 586
Grantham, J. J.: Vasopressin: effect on deformability of urinary surface of collecting duct cells, 1093
Gray, J. A., and G. G. Ball: Frequency-specific relation between hippocampal theta rhythm, behavior, and amobarbital action, 1246
Grecian concept of entasis (*letter*), P. D. Bardis, 917

Green, B. R., and H. Burton: *Acetabularia* chloroplast DNA: electron microscopic visualization, 981
Green, D. G.: Testing the vision of cataract patients by means of laser-generated interference fringes, 1240
Green, J., *et al.*: Origin of glass deposits in lunar craters, 608
Greenberg, D. S. (*News and Comment*): accelerator at CERN, 1074; Israel, 446; Italy's political turmoil kills plan for first doctoral program, 683; Volkswagen Foundation, 952
Greengard, P. *See* Reik, L.,*et al.*
Greenshields, B. D.: Traffic and highway research and how it may be improved, 674
Greenwald, G. S.: *book review* of Recent progress in hormone research, 1335
Greenwood, W. R. *See* Green, J., *et al.*
GREGG, T. G. *See* METTLER, L. E.
Gregory, R. L.: *book review* of The task of Gestalt psychology, 712
Grower, M. F., and E. D. Bransome, Jr.: Adenosine 3′,5′-monophosphate, adrenocorticotropic hormone, and adrenocortical cytosol protein synthesis, 483
Growth versus the quality of life, J. A. Wagar, 1179
Gruchow, N. (*News and Comment*): Carnegie Institution names Abelson, 803; curbs on use of 2,4,5-T imposed, 453; House bill hits campus unrest, 807; Nixon advisers call for better integrated science support, 954; Santa Barbara Channel sanctuary proposed by Nixon, 1438; weather services, 352; women charge universities and colleges with bias, 559
Gulland, J. A. *See* Alverson, D. L., *et al.*
Gutsche, C. D.: *book review* of Catalysis in chemistry and enzymology, 1080

H

Haber, B., *et al.*: L-glutamic acid decarboxylase: a new type in glial cells and human brain gliomas, 598
Hagberg, A. *See* Munck, L., *et al.*
Hailman, J. P.: *book review* of Studies in animal and human behaviour, 700
Hainsworth, F. R., and L. L. Wolf: Regulation of oxygen consumption and body temperature during torpor in a hummingbird, *Eulampis jugularis*, 368
HALL, A. R., The Cambridge Philosophical Society, *book review* of, 565
Hall, M., Jr.: *book review* of Recent progress in combinatorics, 1082
HALL, T. S., Ideas of life and matter, *book review* of, 459
HALSTEAD, L. B., The pattern of vertebrate evolution, *book review* of, 815
Halvorson, H. O. *See* Hansen, J. N., *et al.*
Hamilton, A. (*News and Comment*): arms talks, 234; teaching assistants' strike ends at Wisconsin, 345
Hans Berger on the electroencephalogram of man, P. GLOOR (Ed.), *book review* by J. L. O'Leary, 562
Hansen, H. J. *See* Sonneborn, D. W.
Hansen, J. N., *et al.*: Bacterial spore outgrowth: its regulation, 1291
Hanson, G. P., and W. S. Stewart: Photochemical oxidants: effect on starch hydrolysis in leaves, 1223
Hanson, R. L., *et al.*: Inhibition of phosphofructokinase by quinone methide and α-methylene lactone tumor inhibitors, 378
Harderian gland: development and influence of early hormonal treatment on porphyrin content, L. Wetterberg *et al.*, 996
Hardin, G.: *book review* of The evolution of man and society, 1332
Harman, W. B., Jr.: Opposition to TIAA-CREF bill (*letter*), 522
Harris, B., and C. L. Leven: The scramble for census data (*letter*), 653
HARRISON, J. S. *See* ROSE, A. H.
HARRISON, R. G., Organization and development of the embryo, *book review* of, 724
HART, P. J. (Ed.), The earth's crust and upper mantle, *book review* of, 719
Hartmann, H. A. *See* Elson, C., *et al.*
Haskins, C. P.: *book review* of My several lives, 688
Haury, E. W. *See* Bucha, V., *et al.*
Hausmann, E., *et al.*: Endotoxin: stimulation of bone resorption in tissue culture, 862
Hawk, R. E. *See* Suggs, J. E., *et al.*
HAYES, W., The genetics of bacteria and their viruses, *book review* of, 960
Häyry, P., and V. Defendi: Mixed lymphocyte cultures produce effector cells: model in vitro for allograft rejection, 133
Healey, T. *See* English, W. D., *et al.*
Heath, J. E. *See* Mills, S. H.
Heavy carbon, J. N. Weber *et al.*, 1376
HEBB, C. *See* DALY, I. D.
HECHT, H. H. *See* FISHMAN, A. P.
HEDIGER, H., Man and animal in the zoo, *book review* of, 725
Heezen, B. C. *See* Fischer, A. G., *et al.*
Heiken, G. *See* Green, J., *et al.*
Heikkila, W. J., and J. H. Moore: Reproduction in a finite world (*letters*), 1155
Heinrich, B.: Thoracic temperature stabilization by blood circulation in a free flying moth, 580
Helium isotope effect in solution in water and seawater, R. F. Weiss, 247
Heme requirement for reproduction of a free-living nematode, W. F. Hieb *et al.*, 143
Hemmer, R. *See* Shelton, E., *et al.*
Henderson, D. W. *See* Hsiao, T. C., *et al.*
Hennessy, R. *See* Schiff, W., *et al.*
Henning, G. L. *See* Coggins, C. W., Jr., *et al.*
Henrard, J. *See* Deprit, A., *et al.*
Henriksen, S. *See* Ferguson, J., *et al.*
Henzell, R. F., and M. D. Lowe: Sex attractant of the grass grub beetle, 1005
Hepatic microsomal mixed function oxidase (*meeting report*), J. B. Schenkman, 612
Herbicide usage, M. Newton *et al.*, 1606
Hershey, A. D.: Idiosyncrasies of DNA structure, 1425
Herzenberg, L. A. *See* Riblet, R. J.
Heschemeyer, R. H. *See* Zelazo, P. O.
Hess, E. L.: Origins of molecular biology, 664
Hessler, A. Y., *et al.*: Reproductive system of *Hutchinsoniella macracantha*, 1464
Hessler, R. R. *See* Hessler, A. Y., *et al.*
Hester, J., Jr.: *book review* of Urban dynamics, 693
Heston, L. L. *See* Carran, A. B.
HEWLETT, R. G., and F. DUNCAN, Atomic shield, 1947/1952, *book review* of, 695
Heydegger, H. R., and A. Turkevich: Radioactivity induced in Apollo 11 lunar surface material by solar flare protons, 575
Hieb, W. F., *et al.*: Heme requirement for reproduction of a free-living nematode, 143
Hiebert, E. N.: *book review* of Historical studies in the physical sciences, 735
Higgins, J. A. *See* Reik, L., *et al.*
High-energy astrophysics, T. C. WEEKES, *book review* by E. P. Ney, 732
High-magnesian calcite: leaching of magnesium in the deep sea, D. N. Gomberg and E. Bonati, 1451
High-voltage electron microscopy (*meeting report*), H. S. Bennett *et al.*, 506
Hildebrand, J. H.: "Polywater" is hard to swallow (*letter*), 1397
HILDEMANN, W. H., Immunogenetics, *book review* of, 1334
Hill, R. W. *See* Rizki, T. M.
Hilliard, J. H., and S. H. West: Starch accumulation associated with growth reduction at low temperatures in a tropical plant, 494
Hilton, B. D., and R. D. O'Brien: Antagonism by DDT of the effect of valinomycin on a synthetic membrane, 841
Hinton, T. B.: *book review* of The observation of savage peoples, 107
Hirata, A. A., and P. I. Terasaki: Cross-reactions between streptococcal M proteins and human transplantation antigens, 1095
Hirsch, H. V. B., and D. N. Spinelli: Visual experience modifies distribution of horizontally and vertically oriented receptive fields in cats, 869
Histochemical abnormalities of skeletal muscle in patients with acute psychoses, W. K. Engel and H. Meltzer, 273
Histocompatibility-2 (H-2) polymorphism in wild mice, J. Klein, 1362
Historical studies in the physical sciences, R. MCCORMMACH (Ed.), *book review* by E. N. Hiebert, 735
History of technology and invention, A. M. DAUMAS (Ed.), *book review* by E. S. Ferguson, 726
HOAR, W. S., and D. J. RANDALL (Eds.), Fish physiology, *book review* of, 356
HOCHSTIM, A. R. (Ed.), Kinetic processes in gases and plasmas, *book review* of, 961
Hofer, M. A.: Physiological responses of infant rats to separation from their mothers, 871
Hoffman, W. C.: Where scientists gather (*letter*), 651
Hogan, M. D. *See* Courtney, K. D., *et al.*
HOGBÖM, J. A. *See* CHRISTIANSEN, W. N.
Holcomb, R. W. (*Research Topics*): astrophysics: model proposed for galactic magnetic field, 811; cryogenics and new superconducting materials announced at Dallas, 103; element 105 synthesized and named hahnium by Berkeley researchers, 810; insect control, 456. *See also* Nuessle, V. D.
Hole, F.: *book review* of The civilizational process, 1564
HOLE, F., *et al.*, Prehistory and human ecology of the Deh Luran Plain, *book review* of, 707
Hollister, L. E. *See* Melges, F. T., *et al.*
Holloway, R. L.: Australopithecine endocast (Taung specimen, 1924): a new volume determination, 966
Holtzapple, P. G. *See* Hummeler, K., *et al.*
Homing behavior, orientation, and home range of salamanders tagged with tantalum-182, D. M. Madison and C. R. Shoop, 1484
Hominid phylogeny and immunology: a critical appraisal, D. W. Read and P. E. Lestrel, 578
Hood, L., and D. W. Talmage: Mechanism of antibody diversity: germ line for basis for variability, 325
Hopkins, H. A. *See* Sitz, T. O., *et al.*
Hopson, J. A. *See* Barghusen, H. R.
Hormonal effects on ontogeny of swimming ability in the rat: assessment of central nervous system devolpment, S. Schapiro *et al.*, 147
Hormone-sensitive adenyl cyclase: cytochemical localization in rat liver, L. Reik *et al.*, 382
Horn, M. H., *et al.*: Petroleum lumps on the surface of the sea, 245
Horne, M. T.: Coevolution of *Escherichia coli* and bacteriophages in chemostat culture, 992
Horne, R. A.: Water: nomenclature, 151
Horowitz, I. L., and R. L. Horowitz: Tax-exempt foundations: their effects on national policy, 220
Horowitz, R. L. *See* Horowitz, I. L.
Horsfall, W. R.: *book review* of The biology of mosquito-borne disease, 567

Hossmann, K.-A., and K. Sato: Recovery of neuronal function after prolonged cerebral ischemia, 375
Hot brines and recent heavy metal deposits in the Red Sea, E. T. DEGENS and D. A. ROSS (Eds.), *book review* by R. C. Reynolds, Jr., 1442
How much food from the sea?, D. L. Alverson *et al.*, 503
Howard, I. P.: *book review* of Perceptual and cognitive aspects of body experience, 813
Hsiao, T. C., *et al.*: Maize leaf elongation: continuous measurements and close dependence on plant water status, 590
Hsü, K. J. *See* Maxwell, A. E., *et al.*
Huebner, A. L.: Disintegration of charged liquid jets: results with isopropyl alcohol, 118
Huebner R. J. *See* Sarma, P. S., *et al.*
HUEPER, W. C., Occupational and environmental cancers of the urinary system, *book review* of, 239
Hughes, E. *See* Machta, L.
Huizenga, J. R.: Nuclear fission revisited, 1405
Human cystinosis: intracellular deposition of cystine, K. Hummeler *et al.*, 859
Human glomerular basement membrane: chemical alteration in diabetes mellitus, P. J. Beisswenger and R. G. Spiro, 596
Hummeler, K., *et al.*: Human cystinosis: intracellular deposition of cystine, 859
Hungry future, The R. DUMONT and B. ROSIER, *book review* by V. W. Ruttan, 690
Hunting for dinosaurs, Z. KIELAN-JAWOROWSKA, *book review* by E. H. Colbert, 719
Hurricane Debbie modification experiments, August 1969, R. C. Gentry, 473
Hydrocephalus in mice inoculated neonatally by the oronasal route with reovirus type 1, P. A. Phillips *et al.*, 858
Hydroxyurea: suppression of two-stage carcinogenesis in mouse skin, P. C. Chan *et al.*, 130
Hyperphenylalaninemia: disaggregation of brain polyribosomes in young rats, K. Aoki and F. L. Siegel, 129
"Hypersexuality" and behavioral changes in cats caused by administration of *p*-chlorophenylalanine, J. Ferguson *et al.*, 499

I

Iberall, A. S.: Regarding periodic phenomena, 152
Ice survey by the U.S. Coast Guard, W. S. Carlson, 396
Ideas of life and matter, T. S. HALL, *book review* by T. M. Brown, 459
Identity of very low density lipoprotein apoproteins of plasma and liver Golgi apparatus, R. W. Mahley *et al.*, 380
Idiosyncrasies of DNA structure, A. D. Hershey, 1425
Illusions and sampling environmental cues, W. Schiff *et al.*, 395
Immune responses of inbred mice to repeated doses of antigen: relationship to histocompatibility (H-2) type, N. M. Vaz and B. B. Levine, 852
Immune virolysis: effect of antibody and complement on C-type RNA virus, S. Oroszlan and R. V. Gilden, 1478
Immunogenetics, W. H. HILDEMANN, *book review* by W. K. Silvers, 1334
Immunogenetics of tissue transplantation, A. LENGEROVÁ, *book review* by W. K. Silvers, 1334
Immunotherapy of cancer: an experimental model in syngeneic guinea pigs, B. S. Kronman *et al.*, 257
Impairment of shock avoidance learning after long-term alcohol ingestion in mice, G. Freund, 1599
Implications of anti-ballistic missile systems, C. F. BARNABY and A. BOSERUP (Eds.), *book review* by H. Scoville, Jr., 697
Incubation effects in behavior induction in rats, A. M. Golub *et al.*, 392
Indian muntjac, *Muntiacus muntjak*: a deer with a low diploid chromosome number, D. H. Wurster and K. Benirschke, 1364
Induction and isolation of auxotrophic mutants in somatic cell cultures of *Nicotiana tabacum*, P. S. Carlson, 487
Induction of flowering, The, L. T. EVANS (Ed.), *book review* by J. P. Nitsch, 357
Infant separates himself from his mother, The, H. L. Rheingold and C. O. Eckerman, 78
Inflexible page charges (*letter*), F. P. Woodford, 1285
Information for decisions in environmental policy, R. A. Carpenter, 1316
Information theory in biology after 18 years, H. A. Johnson, 1545
Ingersoll, A. P.: Mars: occurrence of liquid water, 972
Ingle, D. J., and G. E. Schneider: Brain mechanisms and vision: subcortical systems (*meeting report*), 1493
Inhibition of cytotoxicity of lymphocytes by concanavalin A in vitro, P. Perlmann *et al.*, 1112
Inhibition of phosphofructokinase by quinone methide and α-methylene lactone tumor inhibitors, R. L. Hanson *et al.*, 378
Initiation of the breakdown to turbulence, R. C. Wanta, 607
Insects, The, R. F. CHAPMAN, *book review* by H. V. Daly, 1082
Inside-out red cell membrane vesicles: preparation and purification, T. L. Steck *et al.*, 255
Insightful amateur astronomer (*letter*), F. Restle, 1287
Insulin release from isolated human fetal pancreatic islets, A. Espinosa de los Monteros M., *et al.*, 1111
Interaction of plant hormones: abscisic and gibberellic acids, B. V. Milborrow and R. E. Drury, 875
Interferon (*meeting report*), J. Vilček, 398
Intermodal equivalence of stimuli in apes, R. K. Davenport and C. M. Rogers, 279
Intermodal equivalence of stimuli in apes (*technical comment*), N. Geschwind, 1249
International Conference on Radioactive Isotopes in Pharmacology, P. G. WASER *et al.* (Eds.), *book review* by W. J. Waddell, 241
International encyclopedia of the social sciences, D. L. SILLS (Ed.), *book review* by R. B. MacLeod, 714
International zoo yearbook, J. LUCAS (Ed.), *book review* by P. Crowcroft, 725
Interstellar scattering of pulsar radiation and its effect on the spectrum of NP0532, W. M. Cronyn, 1453
Intracranial self-stimulation and wakefulness: effect of manipulating ambient brain catecholamines, S. K. Roll, 1370
Introduction to ionospheric physics, H. RISHBETH and O. K. GARRIOTT, *book review* by S. J. Bauer, 1336
Ionic radon solutions, L. Stein, 362
Irving, G. W., Jr.: Agricultural pest control and the environment, 1419
Is sterilization the answer? (*letters*), M. Nag *et al.*, 62
Isaac, E.: *book review* of The domestication and exploitation of plants and animals and Food in antiquity, 706
Isoantigenic variants: isolation from human diploid cells in culture, R. Adman and D. A. Pious, 370
Izard, C. E. (*editorial*): Cambodian crisis: reason and emotion, The, 1157

J

Jachens, R. C. *See* Kuo, J. T., *et al.*
Jackiw, R.: *book review* of Elementary particle theory, 1196
Jackson, J. J. *See* Eylar, E. H., *et al.*
Jacobson, A.: *book review* of Cells into organs, 356
Jacquette, F. L.: Foundations: withering or growing? (*letter*), 1041
JANSSENS, P. A., Palaeopathology, *book review* of, 1565
Jeanne, R. L.: Chemical defense of brood by a social wasp, 1465
Jeffrey, F. P. *See* English, W. D., *et al.*
JENCKS, W. P., Catalysis in chemistry and enzymology, *book review* of, 1080
Jenerick, H. P. *See* Bennett, H. S., *et al.*
Jenkins, F. A., Jr.: Limb movements in a monotreme (*Tachyglossus aculeatus*): a cineradiographic analysis, 1473
JIRGENSONS, B., Optical rotatory dispersion of proteins and other macromolecules, *book review* of, 962
Johnson, F. H.: *book review* of Luminescence of biopolymers and cells, 460
Johnson, H. A.: Information theory in biology after 18 years, 1545
Johnson, T. V., *See* McCord, T. B., *et al.*
Jones, G. R. *See* Burbank, R. D.
Jones, R. L. *et al.*: Chemical inducers of oviposition for the corn earworm, *Heliothis zea* (Boddie), 856
Jupiter: his limb darkening and the magnitude of his internal energy source, L. M. Trafton and R. L. Wildey, 1214
Jupiter's convection and its red spot, R. Smoluchowski, 1340

K

Kalant, H. *See* G. O. Bustos, *et al.*
KALLOS, P. *See* BURDZY, K.
Kanfer, J. N. *See* Kurtz, D. J.
Kangaroos, H. J. FRITH and J. H. CALABY, *book review* by P. Q. Tomich, 1567
KANTOR, J. R., The scientific evolution of psychology, *book review* of, 711
Kantor, S., *et al.*: 1,3-Bis(*p*-chlorobenzylideneamino)guanidine hydrochloride robenzidene): new poultry anticoccidial agent, 373
Kaplan, N. O. *See* Everse, J., *et al.*
Karlsson, K. E. *See* Munck, L., *et al.*
Karsh, E. B.: Fixation produced by conflict, 873
Katz, J. *See* Schacter, L. P., *et al.*
Kaya, H. K.: Toxic factor produced by a granulosis virus in armyworm larva: effect on *Apanteles militaris*, 251
Keberle, H. *See* WASER, P. G. *et al.*
Keeney, R. L.: Assessment of multiattribute preferences, 1491
Keeton, W. T. *See* Schmidt-Koenig, K., *et al.*
Kelman, R. B., and H. H. Suter: Population crisis and extremism (*letters*), 777
Kennedy, J. R., and A. M. Elliott: Cigarette smoke: the effect of residue on mitochondrial structure, 1097
Kennedy, K. E., and G. A. Thompson, Jr.: Phosphonolipids: localization in surface membranes of *Tetrahymena*, 989
Kennett, R. L., Jr. *See* Kantor, S., *et al.*
Kent, A. B. *See* Sitz, T. O., *et al.*
Keyes, R. W.: Power dissipation in information processing, 796
Khan, A. U.: Singlet molecular oxygen from superoxide anion and sensitized fluorescence of organic molecules, 476
Khanna, J. M. *See* Bustos, G. O., *et al.*
KIELAN-JAWOROWSKA, Z., Hunting for dinosaurs, *book review* of, 719
Kimmel, C. B.: *book review* of Antibodies and immunity, 567
Kinetic processes in gases and plasmas, A. R. HOCHSTIM (Ed.), *book review* by K. M. Watson, 961

Kirsch, W. M., *et al.*: Bulk isolation, in nonaqueous media, of nuclei from lyophilized cells, 1592
Klein, D. C., *et al.*: Melatonin synthesis: adenosine 3′,5′-monophosphate and norepinephrine stimulate *N*-acetyltransferase, 979
Klein, J.: Histocompatibility-2 (H-2) polymorphism in wild mice, 1362
Klemm, R. A. *See* Gamble, F. R., *et al.*
Kling, S. A. *See* Fischer, A. G., *et al.*
Knowing and being, M. POLANYI, *book review* by R. Zaffron, 1440
KÖHLER, W., The task of Gestalt psychology, *book review* of, 712
Kojima, K.-I.: *book review* of Population genetics, 565
KOLDOVSKY, O., Development of the functions of the small intestine in mammals and man, *book review* of, 109
Kolopus, J. L. *See* Chatelain, A., *et al.*
Kopstein, F. F. *See* Seidel, R. J., *et al.*
Kornblum, S. *See* Schacter, L. P., *et al.*
Kornetsky, C. *See* Phillips, M. I., *et al.*
Kotin, P.: *book review* of Neoplastic development, 106
Krasheninnikov, V. *See* Fischer, A. G., *et al.*
Krippner, S.: Drug deceptions (*letter*), 654
KRIVOGLAZ, M. A. Theory of x-ray and thermal-neutron scattering by real crystals, *book review* of, 566
Kronman, B. S., *et al.*: Immunotherapy of cancer: an experimental model in syngeneic guinea pigs, 257
Krouse, H. R. *See* Folinsbee, R. E., *et al.*
KUIJT, J., The biology of parasitic flowering plants, *book review* of, 1081
Kuo, J. T., *et al.*: Transcontinental tidal gravity profile across the United States, 968
Kupchan, S. M. *See* Hanson, R. L., *et al.*
Kupchan, S. M., *et al.*: Reactions of alpha methylene lactone tumor inhibitors with model biological nucleophiles, 376
Kuriyama, K. *See* Haber, B., *et al.*
Kurke, M. I.: Defense of quick publication (*letter*), 1041
Kurtz, D. J., and J. N. Kanfer: Cerebral acid hydrolase activities: comparison in "quaking" and normal mice, 259
Kuwano, M., *et al.*: Ribonuclease V of *Escherichia coli*: susceptibility of heated ribosomal RNA and stability of R17 phage RNA, 1225

L

LaChance, L. E: Sterile males for control of insect populations (*meeting report*), 163
Laffoon, J. L.: *book review* of The flies of western North America, 1334
Lalou, C. *See* Duplessy, J. C., *et al.*
Lamanna, C.: Food-borne toxic microorganisms (*meeting report*), 167
Lamontagne, R. A. *See* Wilson, D. F., *et al.*
Landslides and their control, O. ZÁRUBA and V. MENCL, *book review* by R. E. Goodman, 959
Langmore, J. *See* Crewe, A. V., *et al.*
Langner, R. O. *See* Fuller, G. C.
Langseth, M. G., Jr., *et al.*: Apollo 13 lunar heat flow experiment, 211
Language, name, and concept, J. Bronowski and U. Bellugi, 669
Lardy, H. A. *See* Hanson, R. L., *et al.*
Lasher, R. *See* Kirsch, W. M., *et al.*
Latham, G. V., *et al.*: Missile impacts as sources of seismic energy on the moon, 242
Laties, A. M., and P. A. Liebman: Cones of living amphibian eye: selective staining, 1475
Layered basic complex in oceanic crust, Romanche Fracture, equatorial Atlantic Ocean, W. G. Melson and G. Thompson, 817
Lederberg, J. *See* Epstein, S. S.
Lederberg, S., and G. Stetten: Colcemid sensitivity of fission yeast and the isolation of colcemid-resistant mutants, 485
Lee, D. H. K.: *book review* of Weather and life, 1334
Lehman, H. E.: *book review* of Organization and development of the embryo, 724
Leibowitz, H. *See* Schiff, W., *et al.*
Leiga, A. G., *et al.*: Polywater: an attempt at synthesis in a gas discharge, 114
Leighty, E. G. *See* Foltz, R. L., *et al.*
Leitner, J. W. *See* Kirsch, W. M., *et al.*
Le Magnen, J. *See* Nachman, M., *et al.*
LENGEROVÁ, A., Immunogenetics of tissue transplantation, *book review* of, 1334
Leo, R. F., and E. S. Barghoorn: Phenolic aldehydes: generation from fossil woods and carbonaceous sediments by oxidative degradation, 582
Leon, M. A. *See* Perlmann, P., *et al.*
LeQuire, V. S. *See* Mahley, R. W., *et al.*
Leslie, C.: *book review* of The ritual process, 702
Lester, D. *See* Nachman, M., *et al.*
Lester, G., *et al.*: More views on college admissions (*letters*), 521
Lestrel, P. E. *See* Read, D. W.
Leven, C. L. *See* Harris, B.
Levi, H. W.: *book review* of Natural history collections, 726
Levine, B. B. *See* Vaz, N. M.
Levine, S.: *book review* of Pathogenesis and etiology of demyelinating diseases, 1335
Levy, J. A. *See* Parkman, R., *et al.*
Levy, R. I. *See* Mahley, R. W., *et al.*
Lewin, R. A.: The aspiring eronaut (*letter*), 653
Lewis, E. B. *See* Budinger, T. F., *et al.*
Lewis, W. H.: Chromosomal drift, a new phenomenon in plants, 1115
Lewshenia, R. *See* Zabriskie, J. B., *et al.*
Leyton, R. A., and W. C. Ullrick: Z disc ultrastructure in scutal depressor fibers of the barnacle, 127
Li, C. H. *See* Bewley, T. A.
Lieberman, B.: The university is not a highway department (*letter*), 316
Liebman, P. A.: *See* Laties, A. M.
Life of primates, The, A. H. SCHULTZ, *book review* by J. Buettner-Janusch, 356
Life of the Honourable Robert Boyle, F.R.S., The, R. E. W. MADDISON, *book review* by R. S. Westfall, 734
Lightning and the new-generation aircraft, A. A. Few, 1011
Limb movements in a monotreme (*Tachyglossus aculeatus*): a cineradiographic analysis, F. A. Jenkins, Jr., 1473
Lindsley, D. H., and C. W. Burnham: Pyroxferroite: stability and x-ray crystallography of synthetic $Ca_{0.15}Fe_{0.85}SiO_3$ pyroxenoid, 364
Ling, G. M. *See* Singhal, R. L., *et al.*
Lingenfelter, R. E. *See* Schubert, G.
LIPSETT, S. M. (Ed.), Politics and the social sciences, *book review* of, 108
Lisitzin, A. P. *See* Fischer, A. G., *et al.*
Lissaman, P. B. S., and C. A. Shollenberger: Formation flight of birds, 1003
Lloyd, C. W.: *book review* of Endocrinology and human behaviour, 109
Local-level politics, M. J. SWARTZ (Ed.), *book review* by H. C. Wilson, 564
Lockeretz, W.: Arrogance over clean air (*letter*), 651
Loeb, J. W. *See* Stallings, W. M., *et al.*
Loeppky, C. *See* Tweedy, B. G., *et al.*
Loevinger, J., and E. Banks: Quick publication schemes (*letters*), 194
Lofgren, C. S. *See* Patterson, R. S., *et al.*
Long arm of "security clearances" (*letter*), G. D. Pappas, 67
Longhurst, A. R. *See* Alverson, D. L., *et al.*
LORENZ, K., Studies in animal and human behaviour, *book review* of, 700
Loth, J. *See* Bustos, G. O., *et al.*
LOUGHNAN, F. C., Chemical weathering of the silicate minerals, *book review* of, 1567
Lowe, M. D. *See* Henzell, R. F.
Lowry, R.: *book review* of The scientific evolution of psychology, 711
LOWRY, W. P., Weather and life, *book review* of, 1334
LUCAS, J. (Ed.), International zoo yearbook, *book review* of, 725
Luck, G. R. *See* McElhinny, M. W.
Luminescence of biopolymers and cells, G. M. BARENBOIM *et al.*, *book review* by F. H. Johnson, 460
Lunar ephemeris: Delaunay's theory revisited, A. Deprit *et al.*, 1569
Lunar gravity over large craters from Apollo 12 tracking data, P. Gottlieb *et al.*, 477
Luria, S. E.: Phage, colicins, and macroregulatory phenomena, 1166
Lusnak, K. *See* Roth, R.
Lycopene accumulation induced by 2-(4-chlorophenylthio)-triethylamine hydrochloride, C. W. Coggins, Jr., *et al.*, 1589
Lymphocytic responses to streptococcal antigens in glomerulonephritic patients, J. B. Zabriskie *et al.*, 1105

M

MacConnell, J. G., *et al.*: Alkaloid from fire ant venom: identification and synthesis, 840
Machta, L., and E. Hughes: Atmospheric oxygen in 1967 to 1970, 1582
MacKay, V. *See* Duntze, W., *et al.*
MacLeod, R. B.: *book review* of International encyclopedia of the social sciences, 714
MacNeish, R. S., *et al.*: Megafauna and man from Ayacucho, highland Peru, 975
Madden, W.: *book review* of The children of Frankenstein and Toward century 21, 687
MADDISON, R. E. W., The life of the Honourable Robert Boyle, F.R.S., *book review* of, 734
Madison, D. M., and C. R. Shoop: Homing behavior, orientation, and home range of salamanders tagged with tantalum-182, 1484
Magnuson, L. M. *See* Angino, E. E., *et al.*
Mahley, R. W., *et al.*: Identity of very low density lipoprotein apoproteins of plasma and liver Golgi apparatus, 380
Mahnken, C. V. W. *See* Clifton, H. E., *et al.*
Maize leaf elongation: continuous measurements and close dependence on plant water status, T. C. Hsiao *et al.*, 590
Majchrowicz, E., and J. H. Mendelson: Blood concentrations of acetaldehyde and ethanol in chronic alcoholics, 1100
Makers of modern geography, The, R. E. DICKINSON, *book review* by S. H. Olson, 715
Malaria resistance: artificial induction with a partially purified plasmodial fraction, L. E. D'Antonio *et al.*, 1117
MALÉCOT, G., The mathematics of heredity, *book review* of, 721
Man and animal in the zoo, H. HEDIGER, *book review* by P. Crowcroft, 725
Man-made plant diseases, C. E. Yarwood, 218
Man's oxygen reserves, W. S. Broecker, 1537
Manney, T. R. *See* Duntze, W., *et al.*

Marihuana and temporal disintegration, F. T. Melgos *et al.*, 1118
Marihuana chemistry, R. Mechoulam, 1159
Marital success of scientists (*letter*), B. N. Shor, 1400
Mars: occurrence of liquid water, A. P. Ingersoll, 972
MARSHAK, R. E., *et al.*, Theory of weak interactions in particle physics, *book review* of, 962
Martin, C. F., and T. C. Van Flandern: Secular changes in the lunar elements, 246
Martin, J. B., and S. Reichlin: Thyrotropin secretion in rats after hypothalamic electrical stimulation or injection of synthetic TSH-releasing factor, 1366
Masiarz, F. R. *See* Golub, A. M., *et al.*
Mason, B. *See* Smith, J. V.
MASSEY, H. S. W., *et al.*, Electronic and ionic impact phenomena, *book review* of, 462
Mathematical methods in solid state and superfluid theory, R. C. CLARK and G. H. DERRICK (Eds.), *book review* by C. M. Varma, 963
Mathematics of heredity, The, G. MALÉCOT, *book review* by J. F. Crow, 721
MATIJEVIĆ, E., and F. R. EIRICH (Eds.), Surface and colloid science, *book review* of, 1197
MATTINGLY, P. F., The biology of mosquito-borne disease, *book review* of, 567
Maxwell, A. E., *et al.*: Deep sea drilling in the South Atlantic, 1047
Mayer, J. W.: *book review* of The observation of atomic collisions in crystalline solids, 358
Mayers, K. S. *See* Thompson, R. F., *et al.*
Maynard, G. L.: Crustal layer of seismic velocity 6.9 to 7.6 kilometers per second under the deep oceans, 120
Mazur, P.: Cryobiology: the freezing of biological systems, 939
McAlack, R. F., *et al.*: Vibriolytic antibody-forming cells: a new application of the Pfeiffer phenomenon, 141
McConnell, J. V. *See* Golub, A. M., *et al.*
McCord: T. B., *et al.*: Asteriod Vesta: spectral reflectivity and compositional implications, 1445
MC CORMMACH, R. (Ed.), Historical studies in the physical sciences, *book review* of, 735
McDonald, D. L. *See* Schmidt-Koenig, K., *et al.*
McDonald, P. T., and K. S. Rai: *Aedes aegypti*: origin of a "new" chromosome from a double translocation heterozygote, 1229
McDonald, W. G. *See* Latham, G. V., *et al.*
McDonnell, J. A. M. *See* Berg, O. E.
McElheny, V. K. (*News and Comment*): M.I.T. makes public its intentions on disposition of Draper and Lincoln laboratories, 1074;
McElhinny, M. W., and G. R. Luck: Paleomagnetism and Gondwanaland, 830
McHugh, J. L.: *book review* of The Pacific salmon fisheries, 737
McKinney, J. D. *See* Suggs, J. E., *et al.*
McLaughlin, P. J., and M. O. Dayhoff: Eukaryotes versus prokaryotes: an estimate of evolutionary distance, 1469
McVittie, G. C., and P. L. Bender: One-way radar range to the moon, 1012
Mechanic, D.: *book review* of Men, money, and medicine, 1563
MECHANIC, D., Mental health and social policy, *book review* of, 812
Mechanism of antibody diversity: germ line basis for variability, L. Hood and D. W. Talmage, 325
Mechoulam, R.: Marihuana chemistry, 1159
Mediation of immunity to tumor isografts in mice by heterologous ribonucleic acid, K. P. Ramming and Y. H. Pilch, 492
Meetings: Biochemical toxicology of insecticide action, 154; Brain mechanisms and vision: subcortical systems, 1493; Chronic non-psychiatric hazards of drugs of abuse, 507; Food-borne toxic microorganisms, 167; Global tectonics, 1250; Hepatic microsomal mixed function oxidase, 612; High-voltage electron microscopy, 506; Interferon, 398; Pharmacology-toxicology, 1013; Separation of plant particles, 282; South Pole reaches the Sahara, 878; Sterile males for control of insect populations, 163; Transplant donation procedures, 613; Women in science: symposium and job mart, 1124
Megafauna and man from Ayacucho, highland Peru, R. S. MacNeish *et al.*, 975
Megalithic rings: their design construction, T. M. Cowan, 321
Melatonin synthesis: adenosine 3′,5′-monophosphate and norepinephrine stimulate *N*-acetyltransferase, D. C. Klein *et al.*, 979
Melges, F. T., *et al.*: Marihuana and temporal disintegration, 1118
Melson, W. G., and G. Thompson: Layered basic complex in oceanic crust, Romanche Fracture, equatorial Atlantic Ocean, 817
Meltzer, H. *See* Engel, W. K.
Men, money, and medicine, E. GINZBERG, *book review* by D. Mechanic, 1563
MENARD, H. W., Anatomy of an expedition, *book review* of, 720
MENCL, V. *See* ZÁRUBA, Q.
Mendelson, J. H. *See* Majchrowicz, E.
Mendez, C. *See* Wulff, V. J.
Mental health and social policy, D. MECHANIC, *book review* by J. A. Clausen, 812
Mercer, J. H., and C. Emiliani: Antarctic ice and interglacial high sea levels, 1605
Mercury: surface features observed during radar studies, R. M. Goldstein, 467
Messman, H. C.: Removing sulfur from coal (*letter*), 1152
Messmer, R. P.: "Polywater": possibility of *p*-electron delocalization, 479
MESTHENE, E. G., Technological change, *book review* of, 1442
Metabolite of (−)-trans-Δ^8-tetrahydrocannabinol: identification and synthesis, R. L. Foltz *et al.*, 844
Metallic and nonmetallic behavior in transition metal oxides, I. G. Austin and N. F. Mott, 71
Metamorphic waters from the Pacific tectonic belt of the west coast of the United States, I. Barnes, 973
Metastable oxygen: origin of atmospheric absorption near 50 kilometers, J. F. Noxon, 1120
METTLER, L. E., and T. G. GREGG, Population genetics and evolution, *book review* of, 355
Metobromuron: acetylation of the aniline moiety as a detoxification mechanism, B. G. Tweedy *et al.*, 482
Meyer, B.: Optical spectra of molecules at low temperature, 783
Meyerhof, W. E.: Effect of the draft on graduate physics education (*letter*), 918
MICHAEL, R. P. (Ed.), Endocrinology and human behaviour, *book review* of, 109
Milborrow, B. V., and R. E. Drury: Interaction of plant hormones: abscisic and gibberellic acids, 875
Milkman, R.: *book review* of Genetic load, 723
Miller, S. L.: *book review* of Chemical evolution, 814
Miller, W. A. *See* Hausmann, E., *et al.*
Millett, J. D.: *book review* of Academia in anarchy, 355
Millodot, M. *See* Glickstein, M.
Mills, S. H., and J. E. Heath: Thermoresponsiveness of the preoptic region of the brain in house sparrows, 1008
Milow, E. D. *See* Maxwell, A. E., *et al.*
Mind assault (*letter*), J. Rabin, 919
Miniature whirlwinds produced in the laboratory by high-voltage electrical discharges, R. T. Ryan and B. Vonnegut, 1349
Missile impacts as sources of seismic energy on the moon, G. V. Latham *et al.*, 242
Mitchell, G. *See* Ferguson, J., *et al.*
Mitchell, I. *See* Courtney, K. D., *et al.*
Mitchell, J. *See* Dilcher, D. L., *et al.*
Mitochondrial RNA synthesis during mitosis, H. Fan and S. Penman, 135; *erratum*, 956
Mittleman, M.: *book review* of Electronic and ionic impact phenomena, 462
Mixed lymphocyte cultures produce effector cells: model in vitro for allograft rejection, P. Häyry and V. Defendi, 133
Moffet, A. T.: U.S. radio astronomy in decline (*letter*), 1400
Mohan, M. S. *See* Rechnitz, G. A.
Mohit, B. *See* Sox, H. C., *et al.*
Möller, G. *See* Zabriskie, J. B., *et al.*
Montagna, W.: *book review* of Exocrine glands, 1443
Moog, F.: *book review* of Development of the functions of the small intestine in mammals and man, 109
Moore, H. J. *See* Latham, G. V., *et al.*
Moore, Jack H., and B. Truelove: Ochratoxin A: inhibition of mitochondrial respiration, 1102
Moore, John H. *See* Heikkila, W. J.
More views on college admissions (*letters*), G. Lester *et al.*, 521
Morimoto, N., *et al.*: Pyrrhotites: stoichiometric compounds with composition $Fe_{n-1}S_n$ ($n \geq 8$), 964
Morphine: radioimmunoassay, S. Spector and C. W. Parker, 1347
Mosaic mutants: absence in a eucaryotic organism, A. Fjeld, 843
Moss, W. W., and J. H. Camin: Nest parasitism, productivity, and clutch size in purple martins, 1000
Motoneuron morphology and synaptic contacts: determination by intracellular dye injection, W. J. Davis, 1358
Mott, N. F. *See* Austin, I. G.
Mouse lysozyme production by a monocytoma: isolation and comparison with other lysozymes, R. J. Riblet and L. A. Herzenberg, 1595
Mozen, M. M. *See* Schroeder, D. D.
MULLER, H. J., The children of Frankenstein, *book review* of, 687
Muller, J. G.: Thermal pollution control (*letter*), 421
Muller, P. M. *See* Gottlieb, P., *et al.*
Mulloney, B.: Structure of the giant fibers of earthworms, 994
Munck, L., *et al.*: Gene for improved nutritional value in barley seed protein, 985
Mundinger, P. C.: Vocal imitation and individual recognition of finch calls, 480
Murine sarcoma virus: the question of defectiveness, R. Parkman *et al.* 387
Mutagenicity of trimethylphosphate in mice, S. S. Epstein *et al.*, 584
Mutations as cellular process, G. E. W. WOLSTENHOLME and M. O'CONNOR (Eds.), *book review* by D. T. Suzuki, 1566
Muzik, T. J.: Panic in the marketplace (*letter*), 1397
My several lives, J. B. CONANT, *book review* by C. P. Haskins, 688
Myxovirus antibody increases in human connective tissue disease, P. E. Phillips and C. L. Christian, 982

N

Nachmann, M., *et al.*: Alcohol aversion in the rat: behavioral assessment of noxious drug effects, 1244

Nachmansohn, D.: Proteins in excitable membranes, 1059

Nag, M., *et al.*: Is sterilization the answer? (*letters*), 62

Nakane, P. *See* Kirsch, W. M., *et al.*

Nakazawa, H. *See* Morimoto, N., *et al.*

Name names! (*letters*), G. M. Weinberg and W. E. Cole, 655

Nash, R. G., and M. L. Beall, Jr.: Chlorinated hydrocarbon insecticides: root uptake versus vapor contamination of soybean foliage, 1109

National Science Foundation, The, D. SCHAFFTER, *book review* by D. C. Swain, 1080

Natural history collections, D. M. COHEN and R. F. CRESSEY (Eds.), *book review* by H. W. Levi, 726

NEEDHAM, J., Clerks and craftsmen in China and the West, *book review* of, 728

NEELY, J. A. *See* HOLE, F., *et al.*

Nelson, B. (*News and Comment*): "charitable crisis" and blue-ribbon panel, 808; Colorado environmentalists: scientists battle AEC and Army, 1324

NELSON, R. S., The observation of atomic collisions in crystalline solids, *book review* of, 358

Nemer, M. *See* Fromson, D.

Neoplastic development, L. FOULDS, *book review* by P. Kotin, 106

Nest parasitism, productivity, and clutch size in purple martins, W. W. Moss and J. H. Camin, 1000

Neural symbolic activity: a psychophysical measure, N. Weisstein, 1489

Newcomb, T. M.: *book review* of Social psychology and human values, 238

News and Comment: academe enters congressional politics after Cambodia and Kent, 955; accelerator at Batavia, Ill., 1071, 1185; accelerator at CERN, 1074; arms talks, 234; Bevan named executive officer of AAAS, 1555; black activists at University of Michigan, 229; budget cuts prompt closer look at science policy, 802; Cambodia speech sinks nomination of George Hammond, 1189; campaign General Motors, 452, 1077; campus politics: decentralization is pattern at Berkeley and Stanford, 1187; Carnegie Institution names Abelson, 803; "charitable crisis" and blue-ribbon panel, 808; Colorado environmentalists: scientists battle AEC and Army, 1324; contraceptive technology, 805; curbs on use of 2,4,5-T imposed, 453; dissent spreads to Nobelists and industrial scientists, 1325; domestic communications satellites, 1190; Earth Day, 558; energy crisis, 1554; Engineering Academy selects new members, 556; environmental law, 1322; faster FDA action asked in lawsuit, 1560; federal grant aid, 1559; Finch leaves HEW for advisor's post; Yolles cut at NIMH, 1327; HEW decentralizers exempt research, 1557; HEW: the department that lost its head, 1431; HEW: what will decentralization mean to research evaluation?, 231; Hiroshima/Nagasaki, 679; House bill hits campus unrest, 807; Israel, 446; Italy's political turmoil kills plan for first doctoral program, 683; Kennedy asks more for NSF, 347; methadone and heroin addiction, 684; M.I.T. administration makes public its intentions on disposition of Draper and Lincoln laboratories, 1074; Nader's raiders on the FDA, 349; NAS again says no to Shockley, 685; NAS selects new members, 681; NASA research center has new role, 100; NIH and NIMH scientists lobby to end the war, 1191; Nixon advisers call for better integrated science support, 954; NSF budget: House group reacts to data on plight of science, 95; oceanography, 98; pollution ocean agencies proposed by Nixon, 1433; Senator William Proxmire, 1435; recession in science: ex-advisors warn of long-term effects, 555; Santa Barbara Channel sanctuary proposed by Nixon, 1438; study of TV violence, 949; teaching assistants' strike ends at Wisconsin, 345; Volkswagen Foundation, 952; weather services, 352; White House nominates four to long-unfilled NSF posts, 101; women charge universities and colleges with bias, 559; erratum, 1192

Newton, M., *et al.*: Herbicide usage, 1606

Ney, E. P.: *book review* of High-energy astrophysics, 732

Nicol, D.: Antarctic pelecypod faunal peculiarities, 1248

Nieburg, H. L.: *book review* of The economy of death and The politics of weapons innovation, 698

Nilsson, H. *See* Perlmann, P., *et al.*

Nilsson, I. M., *et al.*: Δ^1-Tetrahydrocannabinol: structure of a major metabolite, 1228

Nilsson, J. L. G. *See* Nilsson, I. M., *et al.*

1972–75 budgets, The (*editorial*), D. Wolfle, 69

Nishiguchi, K. *See* Morimoto, N., *et al.*

Nitsch, J. P.: *book review* of The induction of flowering, 357

Noise and man, W. BURNS, *book review* by W. A. Rosenblith, 1079

Norepinephrine turnover and metabolism in rat brain after long-term administration of imipramine, J. J. Schildkraut *et al.*, 867

Norris, F. H., Jr.: Realities of physicians' income (*letter*), 65

Norris, L. A. *See* Newton, M., *et al.*

NORTH, A. M. *See* BURNETT, G. M.

NOSSAL, G. J. V., Antibodies and immunity, *book review* of, 567

Nowack, W. J. *See* Stolk, J. M., *et al.*

Noxon, J. F.: Metastable oxygen: origin of atmospheric absorption near 50 kilometers, 1120

Nuclear fission revisited, J. R. Huizenga, 1405

Nuclear physiology and differentiation, R. P. WAGNER and E. A. EAKIN (Eds.), *book review by* D. D. Brown, 566

Nuessle, V. D., and R. W. Holcomb (*Research Topics*): Will the SST pollute the stratosphere?, 1562

Number coding in association cortex of the cat, R. F. Thompson *et al.*, 271

Numerical taxonomy, A. J. COLE (Ed.), *book review* by F. J. Rohlf, 961

O

Obesity: absence of satiety aversion to sucrose, M. Cabanac and R. Duclaux, 496

O'Brien, R. D. *See* Hilton, B. D. *See also* Yamamoto, I.

Observation of atomic collisions in crystalline solids, The, R. S. NELSON, *book review* by J. W. Mayer, 358

Observation of savage peoples, The, J.-M. DEGERANDO, *book review* by T. B. Hinton, 107

Occupational and environmental cancers of the urinary system, W. C. HUEPER, *book review* by J. M. Price, 239

Ochratoxin A: inhibition of mitochondrial respiration, J. H. Moore and B. Truelove, 1102

O'CONNOR, M. *See* WOLSTENHOLME, G. E. W.

Office of Scientific Personnel, National Research Council: Employment status of recent recipients of the doctorate, 930

Ohlsson, A. *See* Nilsson, I. M., *et al.*

Ohnishi, M., and D. W. Urry: Solution conformation of valinomycin-potassium ion complex, 1091

O'Keefe, J. A.: Tektite glass in Apollo 12 sample, 1209

O'Konski, C. T.: Covalent polymers of water, 1089

Olah, G. A.: Stable carbonium ions in solution, 1298

O'Leary, J. L.: *book review* of Hans Berger on the electroencephalogram of man, 562

Olson, J. M.: The evolution of photosynthesis, 438

Olson, S. H.: *book review* of The makers of modern geography, 715

O'Malley, B. W. *See* Rosenfeld, M. G.

On the apparent homology of actin and tubulin, R. E. Stephens, 845

One-way radar range to the moon, G. C. McVittie and P. L. Bender, 1012

Open letter to President Nixon (*letter*), T. M. Rizki and R. W. Hill, 197

Opposition to TIAA-CREF bill (*letter*), W. B. Harman, Jr., 522

Optical rotatory dispersion of proteins and other macromolecules, B. JIRGENSONS, *book review* by G. D. Fasman, 962

Optical spectra of molecules at low temperature, B. Meyer, 783

Organization and development of the embryo, R. G. HARRISON, *book review* by H. E. Lehman, 724

Orians, G. O., and E. W. Pfeiffer: Ecological effects of the war in Vietnam, 544

Orientation by pigeons, K. Schmidt-Koenig *et al.*, 152

Orientation order of dipole molecules in the surface of embryonic droplets, F. F. Abraham, 833

Origin of glass deposits in lunar craters, J. Green *et al.*, 608

Origins of molecular biology, E. L. Hess, 664

Orlans, H.: Scientific muckrakers' role (*letter*), 522

Oró, J. *See* Weber, J. N., *et al.*

Oroszlan, S., and R. V. Gilden: Immune viroiysis: effect of antibody and complement on C-type RNA virus, 1478

Orotidinuria induced by allopurinol, R. M. Fox *et al.*, 861

Ortega, J. K. E., and R. I. Gamow: *Phycomyces*: habituation of the light growth response, 1374

O'Sullivan, W. J. *See* Fox, R. M., *et al.*

Overeducation (*editorial*), D. Wolfle, 319

Owens, R. G.: *book review* of Aflatoxin, 1193

P

Pacific salmon fisheries, The, J. A. CRUTCHFIELD and G. PONTECORVO, *book review* by J. L. McHugh, 737

Page, T. F., Jr. *See* Foltz, R. L., *et al.*

Paleopathology, P. A. JANSSENS, *book review* by T. D. Stewart, 1565

Paleomagnetism and Gondwanaland, M. W. McElhinny and G. R. Luck, 830

Pallansch, M. J. *See* Posati, L. P.

Palmoxylon simperi and *Palmoxylon pristina*: two pre-Cretaceous angiosperms from Utah, W. D. Tidwell *et al.*, 835

Panic in the marketplace (*letter*), T. J. Muzik, 1397

Pappas, G. D.: Long arm of "security clearances" (*letter*), 67

Pardue, M. L., and J. G. Gall: Chromosomal localization of mouse satellite DNA, 1356

Parker, C. W. *See* Spector, S.

Parker, F. L. *See* Berger, W. H.

Parkman, R., *et al.*: Murine sarcoma virus: the question of defectiveness, 387

Partial reversion in yeast: genetic evidence for a new type of bifunctional protein, B. Dorfman *et al.*, 1482

Pathogenesis and etiology of demyelinating

diseases, K. BURDZY and P. KALLOS (Eds.), *book review* by S. Levine, 1335
Pattern of vertebrate evolution, The, L. B. HALSTEAD, *book review* by C. L. Gazin, 815
Patterson, C. J. *See* Thompson, R. F., *et al.*
Patterson, J. H., *et al.*: Chemical composition of the lunar surface in a terra region near the crater Tycho, 825
Patterson, R. S., *et al.*: Suppression and elimination of an island population of *Culex pipiens quinquefasciatus* with sterile males, 1368
Pavlick, R. J. *See* Dilcher, D. L., *et al.*
Peakall, D. B.: *p,p'*-DDT: effect on calcium metabolism and concentration of estradiol in the blood, 592
Pendergast, D. M.: Tumbaga object from the early Classic period, found at Altun Ha, British Honduras (Belize), 116
Penman, S. *See* Fan, H.
Pepsinogens: genetic polymorphism in man, I. M. Samloff and P. L. Townes, 144
Perceptual and cognitive aspects of body experience, F. C. SHONTZ, *book review* by I. P. Howard, 813
Percival, S. F., Jr. *See* Maxwell, A. E., *et al.*
Periodic system of chemical elements, The, J. W. VAN SPRONSEN, *book review* by O. T. Benfey, 733
Periphyton: autoradiography of zinc-65 adsorption, F. L. Rose and C. E. Cushing, 576
Perlmann, P., *et al.*: Inhibition of cytotoxicity of lymphocytes by concanavalin A in vitro, 1112
Perlmutter, L. *See* Schiff, W., *et al.*
PERRY, J., The world's a zoo, *book review* of, 725
Petroleum lumps on the surface of the sea, M. H. Horn *et al.*, 245
Petzold, G. L. *See* Reik, L., *et al.*
Pfeiffer, E. W. *See* Orians, G. O.
PFEIFFER, J. E., The emergence of man, *book review* of, 701
Phage, colicins, and macroregulatory phenomena, S. E. Luria, 1166
Pharmacology-toxicology (*meeting report*), G. J. Cosmides, 1013
Phenolic aldehydes: generation from fossil woods and carbonaceous sediments by oxidative degradation, R. F. Leo and E. S. Barghoorn, 582
Phillips, M. I., *et al.*: Reticular stimulation and chlorpromazine, 1122
Phillips, P. A., *et al.*: Hydrocephalus in mice inoculated neonatally by the oronasal route with reovirus type 1, 858
Phillips, P. E., and C. L. Christian: Myxovirus antibody increases in human connective tissue disease, 982
Phobos: preliminary results from Mariner 7, B. A. Smith, 828
Phosphonolipids: localization in surface membranes of *Tetrahymena*, K. E. Kennedy and G. A. Thompson, Jr., 989
Photochemical oxidants: effect on starch hydrolysis in leaves, G. P. Hanson and W. S. Stewart, 1223
Phycomyces: habituation of the light growth response, J. K. E. Ortega and R. I. Gamow, 1374
Physical view of cloud seeding, M. Tribus, 201
Physicist's renewed look at biology: twenty years later, M. Delbrück, 1312
Physics in the twentieth century, V. F. Weisskopf, 923
Physics of metals, The, J. M. ZIMAN (Ed.), *book review* by H. Ehrenreich, 237
Physiological concentrations of lactate dehydrogenases and substrate inhibition, J. Everse *et al.*, 1236
Physiological responses of infant rats to separation from their mothers, M. A. Hofer, 871
Pilch, Y. H. *See* Ramming, K. P.
Pimm, A. C. *See* Fischer, A. G., *et al.*
Pious, D. A. *See* Adman, R.
PIRCHNER, F., Population genetics in animal breeding, *book review* of, 1566
Plasmalemmal and subsurface complexes in human leukemic cells: membrane bonding by zipperlike junctions, F. T. Sanel and A. A. Serpick, 1458
Platman, S. R. *See* Stolk, J. M., *et al.*
Pleistocene paleotemperatures, C. Emiliani, 822
POLANYI, M., Knowing and being, *book review* of, 1440
Politics and the social sciences, S. M. LIPSET (Ed.), *book review* by A. Campbell, 108
Politics of weapons innovation, The, M. H. ARMACOST, *book review* by H. L. Nieburg, 698
Pollen sequence from late Quaternary sediments in Yellowstone Park, R. G. Baker, 1449
Polywater: an attempt at synthesis in a gas discharge, A. G. Leiga *et al.*, 114
"Polywater" is hard to swallow (*letter*), J. H. Hildebrand, 1397
"Polywater": possibility of *p*-electron delocalization, R. P. Messmer, 479
PONTECORVO, G. *See* CRUTCHFIELD, J. A.
Population crisis and extremism (*letters*), R. B. Kelman and H. H. Suter, 777
Population genetics, W. J. EWENS, *book review* by K.-I. Kojima, 565
Population genetics and evolution, L. E. METTLER and T. G. GREGG, *book review* by T. Prout, 355
Population genetics in animal breeding, F. PIRCHNER, *book review* by R. Frankham, 1566
Posati, L. P., and M. J. Pallansch: Bradykinin inhibition by butylated hydroxyanisole, 121
Postscript (*letter*), G. de Vaucouleurs, 917
Potassium–adenosine triphosphate complex: formation constant measured with ion-selective electrodes, G. A. Rechnitz and M. S. Mohan, 1460
Power dissipation in information processing, R. W. Keyes, 796
PRASAD, M. R. N. (Ed.), Progress in comparative endocrinology, *book review* of, 1443
Predicting ovulation—precisely (*letter*), H. Ghiradella, 1155
Prehistory and human ecology of the Deh Luran Plain, F. HOLE *et al.*, *book review* by P. E. L. Smith, 707
Prescott, D. M.: Frustrations of mislabeling (*letter*), 1285
Preventing the spread of nuclear weapons, C. F. BARNABY (Ed.), *book review* by H. Scoville, Jr., 697
Price, C. A.: Separation of plant particles (*meeting report*), 282
Price, D. E. *See* English, W. D., *et al.*
Price, J. M.: *book review* of Occupational and environmental cancers of the urinary system, 239
Price, M. A. *See* Stephens, E. R.
Primary structures of human pituitary growth hormone and sleep pituitary lactogenic hormone compared, T. A. Bewley and C. H. Li, 1361
Principles of perceptual learning and development, E. J. GIBSON, *book review* by W. R. Garner, 958
Production of carbon monoxide and gaseous hydrocarbons in seawater: relation to dissolved organic carbon, D. F. Wilson *et al.*, 1577
Production of urinary bladder carcinomas in mice by sodium saccharin, G. T. Bryan *et al.*, 1238
Progress in comparative endocrinology, M. R. N. PRASAD (Ed.), *book review* by I. P. Callard, 1443
Progress in desalination (*letter*), S. F. Singer, 1286
Properties and composition of lunar materials: earth analogies, E. Schreiber and O. L. Anderson, 1579
Proteins in excitable membranes, D. Nachmansohn, 1059
Protsch, R. *See* MacNeish, R. S. *et al.*
Prout, T.: *book review* of Population genetics and evolution, 355
Pulmonary and bronchial vascular systems, I. D. DALY and C. HEBB, *book review* by E. D. Robin, 461
Pulmonary circulation and interstitial space, The, A. P. FISHMAN and H. H. HECHT (Eds.), *book review* by E. D. Robin, 461
Pyrazole and induction of fatty liver by a single dose of ethanol, G. O. Bustos *et al.*, 1598
Pyroxene-garnet transformation in Coorara meteorite, J. V. Smith and B. Mason, 832
Pyroxferroite: stability and x-ray crystallography of synthetic $Ca_{0.15}Fe_{0.85}SiO_3$ pyroxenoid, D. H. Lindsley and C. W. Burnham, 364
Pyrrhotites: stoichiometric compounds with composition $Fe_{n-1}S_n (n \geq 8)$, N. Morimoto *et al.*, 964

Q

Quantitation of strain BALB/c mouse peritoneal cells, E. Shelton *et al.*, 1232
Quartz: preferred orientation in rocks produced by Dauphiné twinning, J. Tullis, 1342
Quick publication schemes (*letters*), J. Loevinger and E. Banks, 194
Quicklime: effects on soft-bodied marine organisms, R. L. Turner, 606

R

R & D depression in the United States, The, S. Dedijer, 344
Rabin, J.: Mind assault (*letter*), 919
Radiation effects and oxygen vacancies in silicates, A. Chatelain *et al.*, 570
Radioactivity induced in Apollo 11 lunar surface material by solar flare protons, H. R. Heydegger and A. Turkevich, 575
Radio-frequency thrombosis of vascular malformations with a transvascular magnetic catheter, J. A. Taren and T. O. Gabrielsen, 138
Radiotelescopes, W. N. CHRISTIANSEN and J. A. HÖGBOM, *book review* by G. W. Swenson, Jr., 732
Rai, K. S. *See* McDonald, P. T.
Raisz, L. G. *See* Hausmann, E., *et al.*
Ramming, K. P., and Y. H. Pilch: Mediation of immunity to tumor isografts in mice by heterologous ribonucleic acid, 492
RANDALL, D. J. *See* HOAR, W. S.
Random admissions to college (*letter*), W. M. Stallings *et al.*, 1523
Rapp, H. J. *See* Kronman, B. S., *et al.*
Ratner, M. *See* Clouet, D. H.
Reactions of alpha methylene lactone tumor inhibitors with model biological nucleophiles, S. M. Kupchan *et al.*, 376
Read, D. W., and P. E. Lestrel: Hominid phylogeny and immunology: a critical appraisal, 578
Realities of physicians' income (*letter*), F. H. Norris, Jr., 65
Recent progress in combinatorics, W. T. TUTTE (Ed.), *book review* by M. Hall, Jr., 1082
Recent progress in hormone research, E. B. ASTWOOD (Ed.), *book review* by G. S. Greenwald, 1335
Rechnitz, G. A., and M. S. Mohan: Potassium adenosine triphosphate complex: formation constant measured with ion-selective electrodes, 1460

Recovery of neuronal function after prolonged cerebral ischemia, K.-A. Hossmann and K. Sato, 375
Reed, W. B. *See* Epstein, J. H., *et al.*
Regarding periodic phenomena, A. S. Iberall, 152
Regulation of oxygen consumption and body temperature during torpor in a hummingbird, *Eulampis jugularis*, F. R. Hainsworth and L. L. Wolf, 368
Reichlin, S. *See* Martin, J. B.
Reik, L., *et al.*: Hormone-sensitive adenyl cyclase: cytochemical localization in rat liver, 382
Reiner, A. M., and P. F. Torrence: DDT observations (*letters*), 522
Reinert, J. C., and J. M. Steim: Calorimetric detection of a membrane-lipid phase transition in living cells, 1580
Removing sulfur from coal (*letter*), H. C. Messman, 1152
Remsen, C. C. *See* Degens, E. T., *et al.*
Reporting on feminism (*letter*), N. de Terra, 420
Reproduction in a finite world (*letters*), W. J. Heikkila and J. H. Moore, 1155
Reproductive system of *Hutchinsoniella macracantha*, A. Y. Hessler *et al.*, 1464
Research Topics: astrophysics: model proposed for galactic magnetic field, 811; cryogenics and new superconducting materials announced at Dallas, 103; element 105 synthesized and named hahnium by Berkeley researchers, 810; forces of nature testing their strength, 1329; insect control, 456; parity-violating nuclear forces, 104; will the SST pollute the stratosphere.
Research without boondoggles (*letter*), K. M. Towe, 1151
Reservoir fishery resources symposium, *book review* by P. I. Tack, 463
Restle, F.: Insightful amateur astronomer (*letter*), 1287
Reticular stimulation and chlorpromazine, M. I. Phillips *et al.*, 1122
Retinoscopy and eye size, M. Glickstein and M. Millodot, 605
Reveal, J. L. *See* Tidwell, W. D., *et al.*
REX, D. F. (Ed.), Climate of the free atmosphere, *book review* of, 959
Reynolds, R. C., Jr.: *book review* of Hot brines and recent heavy metal deposits in the Red Sea, 1442
Reynolds, W. H. *See* Budinger, T. F., *et al.*
Rheingold, H. L., and C. O. Eckerman: The infant separates himself from his mother, 78
RIAZUDDIN. *See* MARSHAK, R. E., *et al.*
RIBEIRO, D., The civilizational process, *book review* of, 1564
Riblet, R. J., and L. A. Herzenberg: Mouse lysozyme production by a monocytoma: isolation and comparison with other lysozymes, 1595
Ribonuclease V of *Escherichia coli*: susceptibility of heated ribosomal RNA and stability of R17 phage RNA, M. Kuwano *et al.*, 1225
Ribosomes from spores of *Bacillus cereus* T, F. M. Feinsod and H. A. Douthit, 991
Richter, C. P., and J. R. Duke: Cataracts produced in rats by yogurt, 1372
Ricklefs, R. E.: Clutch size in birds: outcome of opposing predator and prey adaptations, 599
RISHBETH, H., and O. K. GARRIOTT, Introduction to ionospheric physics, *book review* of, 1336
Ritual process, The, V. W. TURNER, *book review* by C. Leslie, 702
Rizki, T. M., and R. W. Hill: Open letter to President Nixon (*letter*), 197
Robblee, A. R. *See* Folinsbee, R. E., *et al.*
Roberts, E. *See* Haber, B., *et al.*
Robertson, R. T. *See* Thompson, R. F., *et al.*
Robin, E. D.: *book review* of Pulmonary and bronchial vascular systems and The pulmonary circulation and interstitial space, 461
Robinson, A. B. *See* Eylar, E. H., *et al.*
Robinson, R. A. *See* Schofield, B. H., *et al.*
ROBINSON, T., The biochemistry of alkaloids, *book review* of, 814
Roe, A.: Vasectomy: research proposal (*letter*), 1523
Rogers, C. M. *See* Davenport, R. K.
Rohlf, F. J.: *book review* of Numerical taxonomy, 961
ROHNER, R. P. (Ed.), The ethnography of Franz Boas, *book review* of, 704
Roll, S. K.: Intracranial self-stimulation and wakefulness: effect of manipulating ambient brain catecholamines, 1370
Rom, A. *See* Deprit, A., *et al.*
Romine, W. O., Jr. *See* Lester, G., *et al.*
ROSE, A. H., and J. S. HARRISON, The yeasts, *book review* of, 1565
Rose, F. L., and C. E. Cushing: Periphyton: autoradiography of zinc-65 adsorption, 576
Rosen, G:. *book review* of Analecta medico-historica, No. 4, un medécin et biologiste, Casimir-Joseph Davaine (1812–1882), 240
Rosenblatt, R. H. *See* Graham, J. B.
Rosenblith, W. A.: *book review* of Noise and man, 1079
Rosenfeld, M. G., and B. W. O'Malley: Steroid hormones: effects on adenyl cyclase activity and adenosine 3′,5′-monophosphate in target tissues, 253
ROSIER, B. *See* DUMONT, R.
ROSS, D. A. *See* DEGENS, E. T.
Ross, J. A. *See* Tweedy, B. G., *et al.*
Rotblat, J.: *book review* of Biological implications of the nuclear age, 698
Roth, R., and K. Lusnak: DNA synthesis during yeast sporulation: genetic control of an early developmental event, 493
Rothstein, M. *See* Hieb, W. F., *et al.*
Royse-Smith, D. *See* Fox, R. M., *et al.*
Rudomin, P. *See* Burke, R. E., *et al.*
Rushforth, S. R. *See* Tidwell, W. D., *et al.*
Rutherford and Boltwood, L. BADASH (Ed.), *book review* by J. B. Spencer, 736
Ruttan, V. W.: *book review* of The hungry future, Seeds of change, and The world food problem, 690
RYAN, C. P. *See* MARSHAK, R. E., *et al.*
Ryan, R. T., and B. Vonnegut: Miniature whirlwinds produced in the laboratory by high-voltage electrical discharges, 1349
Ryther, J. H. *See* Alverson, D. L., *et al.*

S

Saccharomyces cerevisiae: a diffusible sex factor, W. Duntze *et al.*, 1472
Sade, D. S.: *book review* of The emergence of man, 701
Sadler, A. M., Jr. *See* Stevenson, R. E., *et al.*
Sadler, B. L. *See* Stevenson, R. E., *et al.*
Sagan, C. *See* Bar-Nun, A., *et al.*
Saito, T. *See* Maxwell, A. E., *et al.*
Salas, M. *See* Schapiro, S., *et al.*
Salton, G.: Automatic text analysis, 335
Samloff, I. M., and P. L. Townes: Pepsinogens: genetic polymorphism in man, 144
Samuelson, R. J. (*News and Comment*): domestic communications satellites, 1190
Sandberg, F. *See* Nilsson, I. M., *et al.*
Sanders, H. L. *See* Hessler, A. Y., *et al.*
Sanel, F. T., and A. A. Serpick: Plasmalemmal and subsurface complexes in human leukemic cells: membrane bonding by zipperlike junctions, 1458
Sare, E. J. *See* Angell, C. A.
Sarma, P. S., *et al.*: Feline leukemia and sarcoma viruses: susceptibility of human cells to infection, 1098
Sarocystis: development in cultured avian and mammalian cells, R. Fayer, 1104
Sass, H. *See* Boeckh, J., *et al.*
Satellite DNA in constitutive heterochromatin of the guinea pig, J. J. Yunis and W. G. Yasmineh, 263
Sato, K. *See* Hossmann, K.-A.
Saunders, D. S.: Circadian clock in insect photoperiodism, 601
SAUVY, A., General theory of population, *book review* of, 691
Savas, E. S.: Cybernetics in city hall, 1066
Scanning electron microscopy of developing plant organs, R. H. Falk *et al.*, 1471
Schacter, L. P., *et al.*: Campus turmoil and problems (*letters*), 1151
SCHAFFTER, D., The National Science Foundation, *book review* of, 1080
Schapiro, S. *See* Wetterberg, L., *et al.*
Schapiro, S., *et al.*: Hormonal effects on ontogeny of swimming ability in the rat: assessment of central nervous system development, 147
Schatten, K. H.: Flare identification associated with coronal disturbances, 395
Schenkman, J. B.: Hepatic microsomal mixed function oxidase (*meeting report*), 612
Schiff, W., *et al.*: Illusions and sampling environmental cues, 395
Schildkraut, J. J., *et al.*: Norepinephrine turnover and metabolism in rat brain after long-term administration of imipramine, 867
Schlessinger, D. *See* Kuwano, M., *et al.*
Schmidt, R. R. *See* Sitz, T. O., *et al.*
Schmidt-Koenig, K., *et al.*: Orientation by pigeons, 152
Schnatterly, S. E..: *book review* of The structure and chemistry of solid surfaces, 815
SCHNEER, C. J. (Ed.), Toward a history of geology, *book review* of, 718
Schneider, G. E. *See* Ingle, D. J.
SCHOENBERG, I. J. (Ed.), Approximations with special emphasis on spline functions, *book review* of, 1196
Schofield, B. H., *et al.*: Formation of virus-like particles by bone cells in mice with a high incidence of spontaneous leukemia, 588
Schreiber, E., and O. L. Anderson: Properties and composition of lunar materials: earth analogies, 1579
Schroeder, D. D., and M. M. Mozen: Australia antigen: distribution during Cohn ethanol fractionation of human plasma, 1462
Schubert, G., and R. E. Lingenfelter: Superheated ice formed by the freezing of superheated water, 469
SCHULTZ, A. H., The life of primates, *book review* of, 356
Schulz, D. *See* Kirsch, W. M., *et al.*
Schwartz, W. E. *See* Foltz, R. L., *et al.*
Scientific evolution of psychology, The, J. R. KANTOR, *book review* by R. Lowry, 711
Scientific muckrakers' role (*letter*), H. Orlans, 522
SCOTT, M., American city planning since 1890, *book review* of, 957
Scoville, H., Jr.: *book review* of Implications of anti-ballistic missile systems and Preventing the spread of nuclear weapons, 697
Scramble for census data, The (*letter*), B. Harris and C. L. Leven, 653
Second thoughts on Shapiro's defection (*letter*), L. Gorini, 1285
Secular changes in the lunar elements, C. F. Martin and T. C. Van Flandern, 246
Seeds of change, L. R. BROWN, *book review* by V. W. Ruttan, 690
Segal, S. *See* Hummeler, K., *et al.*
Seidel, R. J., *et al.*: CAI: technological misconceptions (*letters*), 1397

Selby, H. A.: *book review* of Comparative studies in kinship, 238
Semiconductor detectors, G. BERTOLINI and A. COCHE (Eds.), *book review* by S. Wagner, 462
Sensory deprivation, J. P. ZUBEK (Ed.), *book review* by L. Goldberger, 709
Separation of plant particles (*meeting report*), C. A. Price, 282
Serpick, A. A. *See* Sanel, F. T.
Serratia marcescens: a pathogen (*letter*), T. A. Whalen, 64
Sex attractant of the grass grub beetle, R. F. Henzell and M. D. Lowe, 1005
Sex ratios of newborns and schizophrenia, M. A. Taylor, 151
Shadow of the telescope, The, G. BUTTMANN, *book review* by W. F. Cannon, 731
Sharlin, H. I.: *book review* of William Whewell's theory of scientific method, 1195
Sharp, R. P. *See* Epstein, S., *et al.*
Shaw, H. R.: Earth tides, global heat flow, and tectonics, 1084
Shear dependence of effective cell volume as a determinant of blood viscosity, S. Chien, 977
SHELLEY, W. B. *See* BOTELHO, S Y., *et al.*
Shelton, E., *et al.*: Quantitation of strain BALB/c mouse peritoneal cells, 1232
Shiffrin, R. M.: Forgetting: trace erosion or retrieval failure?, 1601
Shock synthesis of amino acids in simulated primitive environments, A. Bar-Nun *et al.*, 470
Shokeir, M. H. K. *See* Nag, M., *et al.*
Shollenberger, C. A. *See* Lissaman, P. B. S.
SHONTZ, F. C., Perceptual and cognitive aspects of body experience, *book review* of, 813
Shoop, C. R. *See* Madison, D. M.
Shor, B. N.: Marital success of scientists (*letter*), 1400
Short-latency labyrinthine input to the vestibular nuclei in the pigeon. A. V. J. Wilson and R. M. Wylie, 124
Shortage of caviar (*editorial*), P. H. Abelson, 199
Shortage of caviar (*letter*), R. W. Simmons, 1525
Shrago, E. *See* Elson, C., *et al.*
Shug, A. L. *See* Elson, C., *et al.*
Siegel, F. L. *See* Aoki, K.
SILLS, D. L. (Ed.), International encyclopedia of the social sciences, *book review* of, 714
Silver, S. *See* Bhattacharyya, P., *et al.*
Silverman, P. H. *See* D'Antonio, L. E., *et al.*
Silvers, W. K.: *book review* of Immunogenetics and Immunogenetics of tissue transplantation, 1334
Simmons, G. *See* Langseth, M. G., Jr., *et al.*
Simmons, R. W.: Shortage of caviar (*letter*), 1525
Simpson, G. G.: Ages of fossil penguins in New Zealand, 361
Singer, S. F.: Progress in desalination (*letter*), 1286
Singhal, R. L., *et al.*: Cyclic adenosine monophosphate: andromimetic action on seminal vesicular enzymes, 261
Singlet molecular oxygen from superoxide anion and sensitized fluorescence of organic molecules, A. U. Khan, 476
Sitz, T. O., *et al.*: Equilibrium density-gradient procedure for selection of synchronous cells from asynchronous cultures, 1231
Sjogren, W. L. *See* Gottlieb, P., *et al.*
Sleep stage characteristics of long and short sleepers, W. B. Webb and H. W. Agnew, Jr., 146
Smekal, E., *et al.*: Bimolecular (black) lipid membranes: study of lipid-protein interactions, 1108
Smith, B. A.: Phobos: preliminary results from Mariner 7, 828
Smith, J. V., and B. Mason: Pyroxene-garnet transformation in Coorara meteorite, 832
SMITH, M. B., Social psychology and human values, *book review* of, 238
Smith, P. E. L.: *book review* of Prehistory and human ecology of the Deh Luran Plain, 707
SMITH, R. T., and R. A. GOOD (Eds.), Cellular recognition, *book review* of, 1336
Smith, S. D., and E. E. Angino: Which products contain arsenic? (*letters*), 1525
Smog aerosol: infrared spectra, E. R. Stephens and M. A. Price, 1584
Smoluchowski, R.: Jupiter's convection and its red spot, 1340
Snyder, H. *See* Snyder, N.
Snyder, N., and H. Snyder: Alarm response of *Diadema antillarum*, 276
Snyder, S. H. *See* Taylor, K. M.
Social organization in the bat *Myotis adversus*, P. D. Dwyer, 1006
Social psychology and human values, M. B. SMITH, *book review* by T. M. Newcomb, 238
Social subordination, population density, and mammalian evolution, J. J. Christian, 84
Society of ciphers (*letters*), W. H. Bell and G. W. Swenson, Jr., 778
Solar activity index: validity supported by oxygen isotope dating, J. R. Bray, 571
Solid-phase radioimmunoassay of protein biosynthesis, H. C. Sox, Jr., and B. Mohit, 1467
Solution conformation of valinomycin–potassium ion complex, M. Ohnishi and D. W. Urry, 1091
Somatic cell mating and segregation in chimeric frogs, E. P. Volpe and E. M. Earley, 850
SOMORJAI, G. A. (Ed.), The structure and chemistry of solid surfaces, *book review* of, 815
Sonneborn, D. W., and H. J. Hansen: Vitamin B_{12} binders of chicken serum and chicken proventriculus are immunologically similar, 591
Sonnenblick, B. P. *See* Budinger, T. F., *et al.*
South Pole reaches the Sahara (*meeting report*), R. W. Fairbridge, 878
Southeast Asian policy (*letter*), R. C. Williams, 917
Southwick, T. P. (*News and Comment*); faster FDA action asked in lawsuit, 1560
Sowinski, K. P. *See* Patterson, J. H., *et al.*
Sox, H. C., Jr., and B. Mohit: Solid-phase radioimmunoassay of protein biosynthesis, 1467
Spar, J.: *book review* of Climate of the free atmosphere, 959
Specificities of transport systems and enzymes, R. D. Berlin, 1539
Spector, S., and C. W. Parker: Morphine: radioimmunoassay, 1347
Spencer, J. B.: *book review* of Rutherford and Boltwood, 736
Spherical protein shell formation from an 11*S* subunit of bacteriorphage f_8, P. O. Zelazo and R. H. Haschemeyer, 1461
Spiegelman, G. *See* Hansen, J. N., *et al.*
Spinelli, D. N. *See* Hirsch, H. V. B.
Spira, D. T. *See* D'Antonio, L. E., *et al.*
Spiro, R. G. *See* Beisswenger, P. J.
Spurrier, W. A. *See* Dawe, A. R., *et al.*
Stable carbonium ions in solution, G. A. Olah, 1298
Stallings, W. M., *et al.*: Random admissions to college (*letter*), 1523
Stanley, N. F. *See* Phillips, P. A., *et al.*
Starch accumulation associated with growth reduction at low temperatures in a tropical plant, J. H. Hilliard and S. H. West, 494
Steck, T. L., *et al.*: Inside-out red cell membrane vesicles: preparation and purification, 255
Steele, W. A.: *book review* of Surface and colloid science, 1197
Steim, J. M. *See* Reinert, J. C.
Stein, L.: Ionic radon solutions, 362
Steinke, J. *See* Espinosa de los Monteros M., A., *et al.*
Stephens, E. R., and M. A. Price: Smog aerosol: infrared spectra, 1584
Stephens, R. E.: On the apparent homology of actin and tubulin, 845
Stephenson, W.: Definitions of a university (*letter*), 1041
Sterile males for control of insect populations (*meeting report*), L. E. LaChance, 163
Steroid hormones: effects on adenyl cyclase activity and adenosine 3',5'-monophosphate in target tissues, M. G. Rosenfeld and B. W. O'Malley, 253
Stetten, G. *See* Lederberg, S.
Stevenson, R. E., *et al.*: Transplant donation procedures (*meeting report*), 613
Stewart, T. D.: *book review* of Palaeopathology, 1565
Stewart, W. S. *See* Hanson, G. P.
Stokstad, E. L. R. *See* Hieb, W. F., *et al.*
Stolk, J. M., *et al.*: Brain norepinephrine: enhanced turnover after rubidium treatment, 501; *erratum*, 1192
Stoltz, D. R., and I. K. Barker: Bladder tumorigenesis, 1121
Stommel, H.: Future prospects for physical oceanography, 1531
Storzer, D. *See* Gentner, W., *et al*
STRANDERG, B. *See* ENGSTRÖM, A.
Strategic postures (*letter*), D. G. Brennan, 778
Straub, R. *See* WASER, P. G., *et al.*
Straus, J. H. *See* Steck, T. L., *et al.*
Streams of culture, G. DE BEER, *book review* by S. J. Gould, 717
Structure and chemistry of solid surfaces, The, G. A. SOMORJAI (Ed.), *book review* by S. E. Schnatterly, 815
Structure of the giant fibers of earthworms, B. Mulloney, 994
Struik, D. J.: *book review* of The Cambridge Philosophical Society, 565
Stuckenrath, R., Jr.: *book review* of The carbon-14 dating of iron, 565
Studies in animal and human behaviour, K. LORENZ, *book review* by J. P. Hailman, 700
Subliming ice surfaces: freeze-etch electron microscopy, J. G. Davy and D. Branton, 1216
Sublimnos: "Volkswagen" of underwater habitats (*letter*), A. R. Emery, 62
Suelter, C. H.: Enzymes activated by monovalent cations, 789
Suggs, J. E., *et al.*: DDT metabolism: oxidation of the metabolite 2,2-bis(*p*-chlorophenyl)ethanol by alcohol dehydrogenase, 582
SUGITA, G., Dawn of Western science in Japan, *book review* of, 728
Summer hibernation induced by cryogenically preserved blood "trigger," A. R. Dawe *et al.*, 497
Superconductivity in layered structure organometallic crystals, F. R. Gamble *et al.*, 568
Superheated ice formed by the freezing of superheated water, G. Schubert and R. E. Lingenfelter, 469
Suppression and elimination of an island population of *Culex pipiens quinquefasciatus* with sterile males, R. S. Patterson *et al.*, 1368
Surface and colloid science, E. MATIJEVIC and F. R. EIRICH (Eds.), *book review* by W. A. Steele, 1197
Süsskind, C.: Bettelheim's essay on youth (*letter*), 653
Suter, H. H. *See* Kelman, R. B.

Sutter, R. P.: Trisporic acid synthesis in *Blakeslea trispora*, 1590
Suzuki, D. T.: *book review* of Mutations as cellular process, 1566
SVARTHOLM, N. (Ed.), Elementary particle theory, *book review* of, 1196
Svehag, S.-E., and B. Bloth: Ultrastructure of secretory and high-polymer serum immunoglobulin A of human and rabbit origin, 847
Swain, D. C.: *book review* of The National Science Foundation, 1080
Swallow, R. J. *See* Seidel, R. J., *et al.*
SWARTZ, M. J. (Ed.), Local-level politics, *book review* of, 564
Swenson, G. W., Jr.: *book review* of Radiotelescopes, 732. *See also* Bell, W. H.
Swinnerton, J. W. *See* Wilson, D. F., *et al.*
Symmetry and function of biological systems at the macromolecular level, A. ENGSTRÖM and B. STRANDBERG (Eds.), *book review* by D. E. Atkinson, 723
Synge, J. L.: *book review* of Essays in the history of mechanics, 354
Synthetic juvenile hormone and "synthetic juvenile hormone," C. E. Berkoff, 1607
Szabo, G. *See* Nag, M., *et al.*

T

Tack, P. I.: *Book review* of Reservoir fishery resources symposium, 463
Talmage, D. W. *See* Hood, L.
Taren, J. A., and T. O. Gabrielsen: Radiofrequency thrombosis of vascular malformations with a transvascular magnetic catheter, 138
Task of Gestalt psychology, W. KÖHLER, *book review* by R. L. Gregory, 712
Tax-exempt foundations: their effects on national policy, I. L. Horowitz and R. L. Horowitz, 220
Taylor, D. H., and D. E. Ferguson: Extraoptic celestial orientation in the southern cricket frog *Acris gryllus*, 390
Taylor, K. M., and S. H. Snyder: Amphetamine: differentiation of *d* and *l* isomers of behavior involving brain norepinephrine or dopamine, 1487
Taylor, M. A.: Sex ratios of newborns and schizophrenia, 151
Taylor, R. E. *See* Bucha, V., *et al.*
Tazieff, H. *See* Bonatti, E.
Teal, J. M. *See* Horn, M. H., *et al.*
Technological change, E. G. MESTHENE, *book review* by K. E. Boulding, 1442
Tektite glass in Apollo 12 sample, J. A. O'Keefe, 1209
Tektite 1, man-in-the-sea project: marine science program, H. E. Clifton *et al.*, 659
Terasaki, P. I. *See* Hirata, A. A.
Teratogenic evaluation of 2,4,5-T, K. D. Courtney *et al.*, 864
Terman, J. S. *See* Terman, M.
Terman, M., and J. S. Terman: Circadian rhythm of brain self-stimulation behavior, 1242
Terrestrial and aquatic orientation in the starhead topminnow, *Fundulus notti*, C. P. Goodyear, 603
Testing the vision of cataract patients by means of laser-generated interference fringes, D. G. Green, 1240
Δ^1-Tetrahydrocannabinol: structure of a major metabolite, I. M. Nilsson *et al.*, 1228
Theodore William Richards and the periodic table, J. B. Conant, 425
THÉODORIDÈS, J., Analecta medico-historica, No. 4, un médecin et biologiste, Casimir-Joseph Davaine (1812–1882), *book review* of, 240
Theory of weak interactions in particle physics, R. E. MARSHAK *et al.*, *book review* by L. Wolfenstein, 962
Theory of x-ray and thermal-neutron scattering by real crystals, M. A. KRIVOGLAZ, *book review* by B. W. Batterman, 566
Thermal pollution control (*letter*), J. G. Muller, 421
Thermoresponsiveness of the preoptic region of the brain in house sparrows, S. H. Mills and J. E. Heath, 1008
Thiemann, H.: Changing dynamics in research and development, 1427
Thomas, H. E.: Ganges Plain: irrigation potential (*letter*), 1042
Thompson, G. *See* Melson, W. G.
Thompson, G. A., Jr. *See* Kennedy, K. E.
Thompson, R. F., *et al.*: Number coding in association cortex of the cat, 271
Thoracic temperature stabilization by blood circulation in a free-flying moth, B. Heinrich, 580
Threat of impatience, The (*editorial*), K. Brewster, Jr., 423
Thyrotropin secretion in rats after hypothalamic electrical stimulation or injection of synthetic TSH-releasing factor, J. B. Martin and S. Reichlin, 1366
Tidwell, W. D., *et al.*: *Palmoxylon simperi* and *Palmoxylon pristina*: two pre-Cretaceous angiosperms from Utah, 835
Tien, H. T. *See* Smekal, E., *et al.*
Ting, H. P. *See* Smekal, E., *et al.*
Ting, R. C. *See* Parkman, R., *et al.*
Tinklenberg, J. R. *See* Melges, F. T., *et al.*
Todd, J.: *book review* of Approximations with special emphasis on spline functions, 1196
Tokonami, M. *See* Morimoto, N., *et al.*
Tomcufcik, A. S. *See* Kantor, S., *et al.*
Tomich, P. Q.: *book review* of Kangaroos, 1567
Tones and numbers: specificity of interference in immediate memory, D. D. Deutsch, 1604
Topics in atomic collision theory, S. GELTMAN, *book review* by J. Callaway, 241
Torrence, P. F. *See* Reiner, A. M.
Toward a history of geology, C. J. SCHNEER (Ed.), *book review* by C. Albritton, 718
Toward century 21, C. S. WALLIA (Ed.), *book review* by W. Madden, 687
Towe, K. M.: Research without boondoggles (*letter*), 1151
Townes, P. L. *See* Samloff, I. M.
Toxic factor produced by a granulosis virus in armyworm larva: effect on *Apanteles militaris*, H. K. Kaya, 251
Traffic and highway research and how it may be improved, B. D. Greenshields, 674
Trafton, L. M., and R. L. Wildey: Jupiter: his limb darkening and the magnitude of his internal energy source, 1214
Transcontinental tidal gravity profile across the United States, J. T. Kuo *et al.*, 968
Transfer and storage of energy by molecules, G. M. BURNETT and A. M. NORTH (Eds.), *book review* by F. S. Dainton, 110
Transplant donation procedures (*meeting report*), R. E. Stevenson *et al.*, 613
Transplantation: pairing of donor and recipient, F. H. Bach, 1170
Tribus, M.: Physical view of cloud seeding, 201
Trichromatic mechanisms in single cortical neurons, P. Gouras, 489
Trilling, D. M., and D. Axelrod: Encapsidation of free host DNA by simian virus 40: a simian virus 40 pseudovirus, 268
TRINKAUS, J. P., Cells into organs, *book review* of, 356
Trisporic acid synthesis in *Blakeslea trispora*, R. P. Sutter, 1590
Troubled times for academic science (*editorial*), P. H. Abelson, 525
Truelove, B. *See* Moore, J. H.
TRUESDELL, C., Essays in the history of mechanics, *book review* of, 354
Truitt, E. B., Jr. *See* Foltz, R. L., *et al.*
Tryptophan operon: structural gene mutation creating a "promoter" and leading to 5-methyltryptophan dependence, R. Callahan III and E. Balbinder, 1586
Tullis, J.: Quartz: preferred orientation in rocks produced by Dauphiné twinning, 1342
Tumbaga object from the early Classic period, found at Altun Ha, British Honduras (Belize), D. M. Pendergast, 116
Turkevich, A. L. *See* Heydegger, H. R. *See also* Patterson, J. H., *et al.*
Turner, R. L.: Quicklime: effects on soft-bodied marine organisms, 606
TURNER, V. W., The ritual process, *book review* of, 702
TUROVEROV, K. K. *See* BARENBOIM, G. M., *et al.*
TUTTE, W. T. (Ed.), Recent progress in combinatorics, *book review* of, 1082
Tweedy, B. G., *et al.*: Metobromuron: acetylation of the aniline moiety as a detoxification mechanism, 482

U

Uchupi, E.: *book review* of Anatomy of an expedition, 720
UCKO, P. J., and G. W. DIMBLEBY (Eds.), The domestication and exploitation of plants and animals, *book review* by E. Isaac, 706
UDVARDY, M. D. F., Dynamic zoogeography, *book review* of, 1193
Ulbrich, M. C.: Chemical individuality of lunar, meteoritic, and terrestrial silicate rocks, 1375
Ullrick, W. C. *See* Leyton, R. A.
Ultrastructure of secretory and high-polymer serum immunoglobulin A of human and rabbit origin, S.-E. Svehag and B. Bloth, 847
U.S. radio astronomy in decline (*letter*), A. T. Moffet, 1400
University is not a highway department, The (*letter*), B. Lieberman, 316
Urban dynamics, J. W. FORESTER, *book review* by J. Hester, Jr., 693
Urry, D. W. *See* Ohnishi, M.

V

Vance, D. W. *See* Leiga, A. C., *et al.*
VAN DER MERWE, N. J., The carbon-14 dating of iron, *book review* of, 565
Van Derwalker, J. C. *See* Clifton, H. E., *et al.*
van de Walle, E.: *book review* of General theory of population, 691
VAN DYNE, G. M. (Ed.), The ecosystem concept in natural resource management, *book review* of, 1079
Van Flandern, T. C. *See* Martin, C. F.
VAN SPRONSEN, J. W., The periodic system of chemical elements, *book review* of, 733
Varma, C. M.: *book review* of Mathematical methods in solid state and superfluid theory, 963
Vasectomy: research proposal (*letter*), A. Roe, 1523
Vasopressin: effect on deformability of urinary surface of collecting duct cells, J. J. Grantham, 1093
Vaz, N. M., and B. B. Levine: Immune responses of inbred mice to repeated low doses of antigen: relationship to histocompatibility (H-2) type, 852
Veith, I.: *book review* of Dawn of Western science in Japan and Western medical pioneers in feudal Japan, 728
Vergano, P. J. *See* Green, J., *et al.*
Vernon, L. *See* Sarma, P. S., *et al.*
Vibriolytic antibody-forming cells: a new application of the Pfeiffer phenomenon, R. F. McAlack *et al.*, 141

Vijayvargiya, R. *See* Singhal, R. L., *et al.*
Vilcék, J.: Interferon (*meeting report*), 398
Villars, T. *See* Golub, A. M., *et al.*
Vinot, A. C. *See* Duplessy, J. C., *et al.*
Visibility of single atoms, A. V. Crewe *et al.*, 1338
Visual experience modifies distribution of horizontally and vertically oriented receptive fields in cats, H. V. B. Hirsh and D. N. Spinelli, 869
Visual receptor potential: modification by injected current in the *Limulus* lateral eye, V. J. Wulff and C. Mendez, 1351
Vitamin B_{12} binders of chicken serum and chicken proventriculus are immunologically similar, D. W. Sonneborn and H. J. Hansen, 591
Vitreous water: identification and characterization, C. A. Angell and E. J. Sare, 280
Vocal imitation and individual recognition of finch calls, P. C. Mundinger, 480
VOGEL, V. J., American Indian medicine, *book review* of, 730
Volpe, E. P., and E. M. Earley: Somatic cell mating and segregation in chimeric frogs, 850
Von Herzen, R. P. *See* Maxwell, A. E., *et al.*
Vonnegut, B. *See* Ryan, R. T.
Vukovich, K. *See* Schapiro, S., *et al.*

W

Waddell, W. J.: *book review* of International Conference on Radioactive Isotopes in Pharmacology, 241
Wagar, J. A.: Growth versus the quality of life, 1179
Wagner, G. A. *See* Gentner, W., *et al.*
Wagner, M. W.: Cyclamate acceptance, 1605
WAGNER, R. P., and E. A. EAKIN (Eds.), Nuclear physiology and differentiation, *book review* of, 566
Wagner, S.: *book review* of Semiconductor detectors, 462
Wahlqvist, M. *See* Nilsson, I. M., *et al.*
Waletzky, E. *See* Kantor, S., *et al.*
Wall, J. *See* Crewe, A. V., *et al.*
WALLACE, B., Genetic load, *book review* of, 723
Wallach, D. F. H. *See* Steck, T. L., *et al.*
Waller, R. A. *See* Clifton, H. E., *et al.*
WALLIA, C. S. (Ed.), Toward century 21, *book review* of, 687
Walsh, J. (*News and Comment*): budget cuts prompt closer look at science policy, 802; Cambodia speech sinks nomination of George Hammond, 1189; campus politics: decentralization is pattern at Berkeley, Stanford, 1187; federal graduate aid, 1559; Finch leaves HEW for advisor's post; Yolles out at NIMH, 1327; HEW: the department that lost its head, 1431; HEW: what will decentralization mean to research evaluation?, 231; Kennedy asks more for NSF, 347; methadone and heroin addiction, 684; NASA research center has new role, 100; White House nominates four to long-unfilled NSF posts, 101. *See also* Boffey, P. M.
Walter, J. L. *See* Foltz, R. L., *et al.*
Wanta, R. C.: Initiation of the breakdown to turbulence, 607
Ward, A. T. *See* Leiga, A. G., *et al.*
Warshaw, I. *See* Bennett, H. S., *et al.*
WASER, P. G., *et al.* (Eds.), International Conference on Radioactive Isotopes in Pharmacology, *book review* of, 241
Water: nomenclature, R. A. Horne, 151
Watson, K. M.: *book review* of Kinetic processes in gases and plasmas, 961
Watson, S. W. *See* Degens, E. T., *et al.*
Watt, K. E. F.: *book review* of The ecosystem concept in natural resource management, 1079
Waugh, T. C. *See* Angino, E. E., *et al.*
Weather and life, W. P. LOWRY, *book review* by D. H. K. Lee, 1334
Weaver, C. E.: *book review* of Chemical weathering of the silicate minerals, 1567
Webb, W. B., and H. W. Agnew, Jr.: Sleep stage characteristics of long and short sleepers, 146
Weber, J. N., *et al.*: Heavy carbon, 1376
Wechsler, A. E. *See* Langseth, M. G., Jr., *et al.*
WEEKES, T. C., High-energy astrophysics, *book review* of, 732
Weeks, R. A. *See* Chatelain, A., *et al.*
Wehle, B. *See* Zabriskie, J. B., *et al.*
Weidhaas, D. E. *See* Patterson, R. S., *et al.*
Weinberg, G. M., and W. E. Cole: Name names! (*letters*), 655
Weinstein, R. S. *See* Steck, T. L., *et al.*
Weiss, R. F.: Helium isotope effect in solution in water and seawater, 247
Weisskopf, V. F.: Physics in the twentieth century, 923
Weissman, M. H.: *book review* of Elementary rheology, 1194
Weisstein, N.: Neural symbolic activity: a psychophysical measure, 1489
Weller, J. *See* Klein, D. C., *et al.*
Wendt, L. *See* Bhattacharyya, P., *et al.*
Wepsic, H. T. *See* Kronman, B. S., *et al.*
West, S. H. *See* Hilliard, J. H.
Westall, F. C. *See* Eylar, E. H., *et al.*
Western medical pioneers in feudal Japan, J. Z. BOWERS, *book review* by I. Veith, 728
Westfall, R. S.: *book review* of The life of the Honourable Robert Boyle, F.R.S., 734
Wetterberg, L., *et al.*: Harderian gland: development and influence of early hormonal treatment on porphyrin content, 996
Whalen, T. A.: *Serratia marcescens*: a pathogen (*letter*), 64
Wharton, D. R. A. *See* Boeckh, J., *et al.*
Where scientists gather (*letter*), W. C. Hoffman, 651
Which products contain arsenic? (*letters*), S. D. Smith and E. E. Angino, 1525
White, G. *See* Kuo, J. T., *et al.*
White, L., Jr.: *book review* of Clerks and craftsmen in China and the West, 728
Whitney, E. *See* Bhattacharyya, P., *et al.*
Whitney, P.: Alaska: ground-level view (*letter*), 64
Wick, G. L. (*Research Topics*): forces of nature testing their strength, 1329; parity-violating nuclear forces, 104
Wickerham, L. J.: *book review* of The yeasts, 1565
Wildey, R. L. *See* Trafton, L. M.
William Whewell's theory of scientific method, R. E. BUTTS (Ed.), *book review* by H. I. Sharlin, 1195
Williams, R. C.: Southeast Asian policy (*letter*), 917
Wilson, D. F., *et al.*: Production of carbon monoxide and gaseous hydrocarbons in seawater: relation to dissolved organic carbons, 1577
Wilson, E. O.: *book review* of Dynamic zoogeography, 1193
Wilson, H. C.: *book review* of Local-level politics, 564
Wilson, R. W.: Attenuation on an earth-space path measured in the wavelength range of 8 to 14 micrometers, 1456
Wilson, V. J., and R. M. Wylie: A short-latency labyrinthine input to the vestibular nuclei in the pigeon, 124
Windmueller, H. G. *See* Mahley, R. W., *et al.*
Winokur, A. *See* Schildkraut, J. J., *et al.*
Wolf, L. L. *See* Hainsworth, F. R.
Wolfenstein, L.: *book review* of Theory of weak interactions in particle physics, 962
Wolfle, D. (*editorials*): After Earth Day, 657; Cry alarm!, 1045; Dying with dignity, 1403; The 1972–75 budgets, 69; Overeducation, 319
Wollenhaupt, W. R. *See* Gottlieb, P., *et al.*
Women in science: symposium and job mart (*meeting report*), N. F. Goldsmith, 1124
Women on college faculties (*letter*), B. L. Chiñas, 917
Woodford, F. P.: Inflexible page charges (*letter*), 1285
Woods, W. M. *See* Lester, G., *et al.*
Woodwell, G. M.: Effects of pollution on the structure and physiology of ecosystems, 429
World food problem, The, W. W. COCHRANE, *book review* by V. W. Ruttan, 690
World's a zoo, The, J. PERRY, *book review* by P. Crowcroft, 725
WOLSTENHOLME, G. E. W., and M. O'CONNOR (Eds.), Mutations as cellular process, *book review* of, 1566
WRIGHT, S.: Evolution and the genetics of populations, *book review* of, 722
Wright, T. L.: *book review* of Feldspars, 461
Wrong top priority, The (*editorial*), A. Etzioni, 921
Wulff, V. J., and C. Mendez: Visual receptor potential: modification by injected current in the *Limulus* lateral eye, 1351
Wurster, D. H., and K. Benirschke: Indian muntjac, *Muntiacus muntjak*: a deer with a low diploid chromosome number, 1364
Wylie, R. M. *See* Wilson, V. J.
Wynder, E. L. *See* Chan, P. C., *et al.*

X

Xenon hexafluoride: structure of a cubic phase at −80°C, R D. Burbank and G. R. Jones, 248

Y

Yamamoto, I., and R. D. O'Brien, Biochemical toxicology of insecticide action (*meeting report*), 154
Yarwood, C. E.: Man-made plant diseases, 218
Yasmineh, W. G. *See* Yunis, J. J.
Yeasts, A. H. ROSE and J. S. HARRISON (Eds.), *book review* by L. J. Wickerham, 1565
Yokoyama, H. *See* Coggins, C. W., Jr., *et al.*
Yoshida, O. *See* Bryan, G. T., *et al.*
Young, J. H.: *book review* of American Indian medicine, 730
Yunis, J. J., and W. G. Yasmineh: Satellite DNA in constitutive heterochromatin of the guinea pig, 263
Yuwiler, A. *See* Wetterberg, L., *et al.*

Z

Zabriskie, J. B., *et al.*: Lymphocytic responses to streptococcal antigens in glomerulonephritic patients, 1105
Zaffron, R.: *book review* of Knowing and being, 1440
Zajac, B. A. *See* Hummeler, K., *et al.*
Zajac, F. E., III. *See* Burke, R. E., *et al.*
ZÁRUBA, Q., and V. MENCL, Landslides and their control, *book review* of, 959
Zbar, B. *See* Kronman, B. S., *et al.*
Z disc ultrastructure in scutal depressor fibers of the barnacle, R. A. Leyton and W. C. Ullrick, 127
Zelazo, P. O., and R. H. Haschemeyer: Spherical protein shell formation from an 11*S* subunit of bacteriophage f_8, 1461
ZIMAN, J. M. (Ed.), The physics of metals, *book review* of, 237
Zoloth, S. R. *See* Adler, N. T.
ZUBEK, J. P. (Eds.), Sensory deprivation, *book review* of, 709